1966-1967 Bulletin

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THE UNIVERSITY OF DAYTON BULLETIN

VOLUME LXXVII
JANUARY, 1966

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The University of Dayton Bulletin includes the admissions catalog issue, the undergraduate catalog issue, the graduate catalog issue, the evening session announcements, and the summer session announcements.

The provisions of the various issues of this Bulletin are to be considered directive in character and not as an irrevocable contract between the student and the University. The University reserves the right to make any changes that seem necessary or desirable.

The current number of any of these publications may be obtained by applying to the office of the Provost.
Academic Calendar

1966-1967

Aug. 27 Sat.  Registration: Part-time and graduate students
              (8:30 a.m. to 11:30 a.m.)
Aug. 29 Mon.  Registration: Returning and new students from Dayton
              (except new freshmen)
              1:00 p.m.  0001-34325
              2:00 p.m.  34326-66607
              3:00 p.m.  66608- - -
Registration: Part-time and graduate students
              (6:30 p.m. to 8:30 p.m.)
Orientation Week for freshmen begins.

Aug. 30 Tues.  Registration: Returning and new students from outside
               Dayton (except new freshmen)
               8:30 a.m.  00001-08640
               9:30 a.m.  08641-17970
              10:30 a.m.  17971-25660
              1:00 p.m.  25661-34325
              2:00 p.m.  34326-43480
              3:00 p.m.  43481-50325
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<thead>
<tr>
<th>Date</th>
<th>Day</th>
<th>Event Description</th>
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<tr>
<td>Aug. 31</td>
<td>Wed.</td>
<td>Registration: Returning and new students from outside Dayton (except new freshmen)</td>
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<tr>
<td></td>
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<td>8:30 a.m. 50326-58820</td>
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<td>9:30 a.m. 58821-66607</td>
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<td></td>
<td></td>
<td>10:30 a.m. 66608-75565</td>
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<td></td>
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<td>1:00 p.m. 75566-87200</td>
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<td></td>
<td></td>
<td>2:00 p.m. 87201-95405</td>
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<tr>
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<td>3:00 p.m. 95406-95406</td>
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<tr>
<td>Sept. 1</td>
<td>Thurs.</td>
<td>Registration: New freshmen</td>
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<td></td>
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<td>8:30 a.m. A-BOX</td>
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<td></td>
<td></td>
<td>9:30 a.m. BOY-COV</td>
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<td></td>
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<td>10:30 a.m. COW-E</td>
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<td></td>
<td>1:00 p.m. F-G</td>
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<td>2:00 p.m. H-I</td>
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<td>3:00 p.m. J-K</td>
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<td>Sept. 2</td>
<td>Fri.</td>
<td>Registration: New freshmen</td>
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<td></td>
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<td>8:30 a.m. L-MC</td>
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<td>9:30 a.m. ME-O</td>
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<td>10:30 a.m. P-R</td>
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<td>1:00 p.m. S</td>
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<td>2:00 p.m. T-WH</td>
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<td>3:00 p.m. WI-Z</td>
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<tr>
<td>Sept. 6</td>
<td>Tues.</td>
<td>Classes begin</td>
</tr>
<tr>
<td>Sept. 7</td>
<td>Wed.</td>
<td>Mass in honor of the Holy Spirit (12:30 p.m.)</td>
</tr>
<tr>
<td>Sept. 13</td>
<td>Tues.</td>
<td>Last day for changes in schedules</td>
</tr>
<tr>
<td>Sept. 26</td>
<td>Mon.</td>
<td>Last day to withdraw without record</td>
</tr>
<tr>
<td>Sept. 27</td>
<td>Tues.</td>
<td>From this date all withdrawals from class for academic difficulty are recorded as F</td>
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<tr>
<td>Oct. 15</td>
<td>Sat.</td>
<td>Homecoming (graduate and Saturday only classes held)</td>
</tr>
<tr>
<td>Oct. 24</td>
<td>Mon.</td>
<td>Mid-term progress grades due in Registrar's office</td>
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<tr>
<td>Nov. 1</td>
<td>Tues.</td>
<td>Feast of All Saints (no classes)</td>
</tr>
<tr>
<td>Nov. 23</td>
<td>Wed.</td>
<td>Thanksgiving recess begins after last evening class</td>
</tr>
<tr>
<td>Nov. 28</td>
<td>Mon.</td>
<td>All classes resume</td>
</tr>
<tr>
<td>Dec. 5</td>
<td>Mon.</td>
<td>Registration: For Second Term—Part-time evening and graduate students (6:30 p.m. to 8:30 p.m.)</td>
</tr>
<tr>
<td>Dec. 6</td>
<td>Tues.</td>
<td>Registration: For Second Term—Part-time evening and graduate students (6:30 p.m. to 8:30 p.m.)</td>
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<td>Dec. 7</td>
<td>Wed.</td>
<td>Registration: For Second Term—Part-time evening and graduate students (6:30 p.m. to 8:30 p.m.)</td>
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<tr>
<td>Dec. 8</td>
<td>Thurs.</td>
<td>Feast of the Immaculate Conception (no classes)</td>
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<tr>
<td>Dec. 18</td>
<td>Sun.</td>
<td>Diploma Exercises</td>
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<td>Dec. 20</td>
<td>Tues.</td>
<td>Term ends after last class</td>
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SECOND TERM

Jan. 3 Tues. Registration: Returning day students
Full or Part-time
8:30 a.m. 10000-93515
9:30 a.m. 98514-87281
10:30 a.m. 87280-80340
1:00 p.m. 80339-75088
2:00 p.m. 75087-69403
3:00 p.m. 69402-63816

Jan. 4 Wed. Registration: Returning day students
Full or Part-time
8:30 a.m. 68815-58077
9:30 a.m. 58076-58182
10:30 a.m. 53181-48536
1:00 p.m. 48535-43039
2:00 p.m. 43038-36637
3:00 p.m. 36636-30297

Jan. 5 Thurs. Registration: Returning day students
Full or Part-time
8:30 a.m. 30296-25265
9:30 a.m. 25264-21227
10:30 a.m. 21226-15945
1:00 p.m. 15944-11042
2:00 p.m. 11041-05537
3:00 p.m. 05536-00001

Registration closes at 4 p.m.

Jan. 6 Fri. Classes begin
Jan. 13 Fri. Last day for change in schedules
Jan. 26 Thurs. Last day to withdraw without record
Jan. 27 Fri. From this date all withdrawals from class for academic
difficulty are recorded as F

Feb. 9 Thurs. Student mission (no classes)
Feb. 15 Wed. Student mission (no classes)
Feb. 24 Fri. Mid-term progress grades due in Registrar's office
Mar. 8 Wed. Honors Day
Mar. 21 Tues. Easter recess begins after last evening class
Mar. 28 Tues. All classes resume
Apr. 17 Mon. Registration: Part-time and graduate students
(6:30 p.m. to 8:30 p.m.)
Apr. 18 Tues. Registration: Part-time and graduate students
(6:30 p.m. to 8:30 p.m.)
Apr. 23 Sun. Commencement exercises
Apr. 25 Tues. Term ends after last class
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THIRD TERM (First Session)

Apr. 27 Thurs.
Registration: All Seniors
8:30 a.m. H thru P
9:30 a.m. Q thru Z
10:30 a.m. A thru G

Registration: All Juniors
1:00 p.m. H thru P
2:00 p.m. Q thru Z
3:00 p.m. A thru G

Apr. 28 Fri.
Registration: All Sophomores
8:30 a.m. H thru P
9:30 a.m. Q thru Z
10:30 a.m. A thru G

Registration: All Freshmen
1:00 p.m. H thru P
2:00 p.m. Q thru Z
3:00 p.m. A thru G

Registration closes at 4 p.m.

May 1 Mon.
Classes begin

May 4 Thurs.
Feast of the Ascension (no classes, except those meeting after 4 p.m.)

May 8 Mon.
Last day for change in schedules

May 10 Wed.
Last day to withdraw without record

May 11 Thurs.
From this date all withdrawals from class for academic difficulty are recorded as F

May 30 Tues.
Memorial Day (no classes)

June 3 Sat.
Registration: For Summer Session
All students (8:30 a.m. to 11:30 a.m.)

June 13 Tues.
Term ends after last class

June 19 Mon.

June 20 Tues.

Registration: Part-time and graduate students
(1:00 p.m. to 3:00 p.m. and 6:30 p.m. to 8:30 p.m.)

June 21 Wed.

Registration: All students
(8:30 a.m. to 11:30 a.m. and 1:00 p.m. to 3:00 p.m.)

Registration closes at 4 p.m.

June 27 Thurs.
Classes begin

June 28 Fri.
Last day for change in schedules

June 30 Mon.
Last day to withdraw without record

July 3 Mon.
From this date all withdrawals from class for academic difficulty are recorded as F

July 4 Tues.
Independence Day (no classes)

July 5 Fri.
Term ends after last class

Aug. 1 Sat.
Diploma Exercises
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General Information

THE UNIVERSITY OF DAYTON
The University of Dayton is a medium-sized, private, coeducational school with a growing reputation for academic achievement. Located in the heart of the midwest, it attracts its student body from the local community, the state of Ohio and other Midwestern and Eastern states, and a number of foreign lands. With a full-time student body of seven thousand, the University of Dayton is ranked ninth in size among the nation's Catholic colleges. It includes four schools and colleges offering a large selection of study ranging from art and philosophy to geology and computer science.

Founded more than a century ago by the Catholic teaching order of the Society of Mary (Marianists), the University numbers among its students representatives of many faiths. All students, however, partake of the friendly, family spirit for which the campus is known.

The campus itself is located on a seventy-six acre hilltop at the southern edge of the city of Dayton where older and newer buildings are blended into a pleasant setting. A West Campus, just several minutes distant from the Main Campus, also is of seventy-six acres; it is used primarily for housing of freshman men. An East Campus, on the dividing line between Montgomery and Greene Counties, is the motherhouse for young Marianist Brothers who are doing college work.

A well-qualified faculty of priests, Brothers, Sisters, and laymen provides the student the "competent instruction, tempered discipline, and prudent counseling" which the University sees as one of its principal aims.

A placement service for students and graduates; very reasonable tuition rates and financial aid plans; varied religious, social, and cultural opportunities; a trimester-type academic calendar providing a number of different study-recess possibilities; and high-caliber intercollegiate and intramural athletic programs are but a few of the "features" which contribute to the character of the University of Dayton.
UNIVERSITY GOALS

Education, which has as its ultimate aim to prepare man for what he must be and what he must do here on earth in order to attain the sublime end for which he was created, is necessarily a lifelong process in which many agencies participate. As one of these agencies, concentrating its efforts in the area of higher education, the University of Dayton professes to provide an academic atmosphere in which Christian principles of thought and action are the essential integrating and dynamic forces impelling the student to pursue, to cherish, and to disseminate what is true, good, and beautiful.

In promoting this formation the University envisions the harmonious development of the student's natural and supernatural capacities and contributes to this objective by helping him to acquire and develop sound religious and moral convictions, broad knowledge and basic intellectual habits, physical vigor and emotional stability, keen awareness of social responsibility, specialized professional attitudes and competencies.

To assure the achievement of these objectives the University endeavors to provide for all its students competent instruction, tempered discipline, and prudent counseling, together with appropriate physical surroundings and opportunities for participation in a variety of curricular and extracurricular activities.

The University is convinced that, by imparting such a well-rounded education to as many students as possible, it is preparing worthy members for both the Church and the State. Moreover, by offering to these institutions its physical and human resources for the discovery and dissemination of truth and for the rendering of those specialized educational services that fall within the area of its competence, the University seeks to fulfill as fully as possible the mission to which it is committed by its official motto—Pro Deo et Patria, For God and Country.

HISTORICAL SKETCH

The University of Dayton traces its history to the year 1850 when a modest primary school for boys, known as St. Mary's Institute, was opened in Dayton. Operating the little school was a group of Catholic missionaries who had left their native France just a year earlier to bring their educational work to Amer-
ica. These priests and Brothers were members of the Society of Mary, a religious order founded in 1817 by Father William Joseph Chaminade.

These pioneer Marianists, as members of the Society are called, while conducting their ministry in Dayton fortunately became acquainted with a certain Mr. John Stuart, scion of the royal family of Scotland. Mr. Stuart sold the Marianists his one-hundred-and-twenty-acre "Dewberry Farm" just south of the city—an ideal, hilltop property for a school. The following summer, in 1850, fourteen pupils began classes in the house on Dewberry Farm.

From that humble beginning St. Mary's Institute grew. Some years later, it became St. Mary's College, and then, in 1920, the University of Dayton.

Its growth and progress continued. When the school adopted its present name, enrollment was one hundred and seventy-one. In 1937, two years after coeducation was introduced, it passed the thousand mark. Following World War II, enrollment at the University of Dayton—as at most other colleges and universities around the country—expanded rapidly. In 1946, almost three thousand students registered and, in 1965, a record total enrollment of almost ten thousand was attained.

Growth in numbers does not necessarily represent progress, of course. While enrollments grew, new programs on both undergraduate and graduate levels were initiated, curricula and methods of presenting them were streamlined. New buildings to house various departments and activities were built at a rapid pace. Professional and educational groups recognized the University's work with accreditation and approval.

Today, in its one-hundred-and-sixteenth academic year, the University of Dayton includes the College of Arts and Sciences, School of Business Administration, School of Education, School of Engineering, and Technical Institute. In all, thirty-seven departments of instruction function on the campus, awarding twenty-four different degrees on the associate, baccalaureate, and graduate levels. These degrees are:

- Bachelor of Arts
- Bachelor of Science
- Bachelor of Fine Arts
- Bachelor of Music
- Bachelor of Social Science
- Associate in Police Administration
- Bachelor of Science in Home Economics
- Bachelor of Science in Medical Technology
- Bachelor of Science in Business Administration
- Associate in Business Administration
- Bachelor of Science in Education
- Bachelor of Chemical Engineering
- Bachelor of Civil Engineering
- Bachelor of Electrical Engineering
- Bachelor of Industrial Engineering
- Bachelor of Mechanical Engineering
- Bachelor of Technology
- Associate in Technology
- Master of Arts
- Master of Public Administration
- Master of Business Administration
- Master of Science
- Master of Science in Education
- Master of Science in Engineering
ACCREDITATION
The University of Dayton is officially accredited by the North Central Association of Colleges and Secondary Schools. Other official accreditations include those of the State of Ohio Department of Education, the National Council for Accreditation of Teacher Education (for preparation of elementary and secondary school teachers), the Engineers' Council for Professional Development (for civil, electrical, and mechanical engineering curricula, and for electronic, industrial, and mechanical engineering technology programs), and the Council on Social Work Education (for sociology). The University has the approval of the American Medical Association (for its pre-medical program) and of the American Chemical Society (for its programs in chemistry).

In addition to these accreditations and approvals, the University holds institutional memberships in the Association of American Colleges, the American Association of Colleges for Teacher Education, the American Council on Education, the American Society for Engineering Education, the National Catholic Educational Association, the National League for Nursing, the Ohio College Association, the International Council on Education for Teaching, the Association of Urban Universities, and the American Association of University Women.

UNIVERSITY PROGRAMS
In addition to the regular day session, the University also conducts evening and summer sessions and offers short-term non-credit courses, conferences, and institutes through a Special Sessions program.

COLLEGE OF ARTS AND SCIENCES
The College of Arts and Sciences, largest of the University's six academic units and traditionally the basic unit, includes twenty departments: Biology, Chemistry, Communication Arts, Computer Science, English, Fine Arts, Geology, History, Home Economics, Languages, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Sociology and Anthropology, and Theological Studies.
Pre-professional courses are offered in medicine, dentistry, dietetics, optometry, veterinary medicine, pharmacy, law, foreign service, social service, radio and television broadcasting. In cooperation with St. Elizabeth, Good Samaritan, and Miami Valley hospitals, courses are given in medical technology. Affiliation with the Dayton Art Institute makes it possible for students to work for the Bachelor of Fine Arts degree. Affiliation of the Dayton Junior Philharmonic Orchestra with the University provides music students an opportunity for valuable musical practice and experience.

Programs leading to the degrees of Master of Arts or Master of Science are offered in biology, chemistry, English, history, mathematics, philosophy, physics, political science, psychology, and theological studies. The professional degree Master of Public Administration is also offered.

School of Business Administration

The School of Business Administration offers undergraduate majors in accounting, business management, industrial management, marketing, personnel management, and economics. On the graduate level, the School awards a Master of Business Administration degree. Also offered is a two-year course in secretarial studies leading to an associate degree.

School of Education

The School of Education prepares teachers for the elementary and secondary levels and for such specialized fields as art, music, speech, business, health and physical education, and home economics. It conducts retraining and postgraduate programs, and offers four graduate programs leading to the degree of Master of Science in Education. These four programs are designed to prepare school administrators, school counselors, master elementary teachers, and master high school teachers.

School of Engineering

The School of Engineering includes the departments of Chemical Engineering, Civil Engineering and Engineering Mechanics, Electrical Engineering, Industrial Engineering, and Mechanical Engineering. The School offers a graduate program leading to the degree of Master of Science in Engineering.

Technical Institute

The Technical Institute includes the Departments of Chemical Technology, Electronic Engineering Technology, Industrial Engineering Technology, and Mechanical Engineering Technology. Each of these offers a five-term program leading to the Associate in Technology degree. The Technical Institute also offers a program leading to the Bachelor of Technology degree for those who complete the Associate in Technology program.
SPECIAL SESSIONS

Many of the programs presented during the regular day sessions are offered also in the Evening and Summer Sessions, enabling students to work toward degrees on a part-time basis. These sessions are governed by the same policies and regulations prevailing during the Day Session.

In addition, specialized non-credit, adult education courses are offered through Special Sessions. Management development and continuing education programs are conducted for business, industry, government, schools, the professions, and the general public.

WVUD-FM AND UD-CCTV

Modern communications media available to all University departments and programs include WVUD-FM, a radio station covering the Miami Valley area, and an on-campus, closed circuit television operation. Both facilities are housed in the John F. Kennedy Memorial Union.

RESEARCH INSTITUTE

As an integral unit of the University, the Research Institute administers sponsored research that the University agrees to perform for commercial organizations and governmental agencies. Research projects concerned with a single discipline are normally performed by the appropriate department of instruction, whereas the larger projects that are primarily multi-disciplinary in character are performed within research laboratories under the jurisdiction of the Research Institute. A strong emphasis is placed on the integration of all research with the instructional activities of the University, and a concerted effort is made to provide opportunities for undergraduate as well as graduate students to acquire experience and training in the methods of research.
CALENDAR
The University of Dayton operates on a "Split Third-Term" calendar. This modern calendar, detailed at page 2, comprises a fall and winter term, each of fifteen weeks, and a spring-summer term which is split into two seven and a half-week units. The advantages of such a calendar, for varying the vacation periods or for accelerating the study program, are many. A student may enroll for the traditional fall and winter terms and take an expanded summer vacation; or he may add each summer a half term or full term in order to complete graduation requirements sooner. The student who must work to put himself through school will have additional time in the spring and summer for employment; or he may enroll for the spring-summer term and use either the fall or winter term as a vacation period when the employment market is not crowded with other college students. Each student is free, within the broad limits of the calendar, to construct his own study-vacation plan.

LOCATION
The University of Dayton Main Campus is located near Patterson Boulevard (Interstate Route 75) toward the southern city limits of Dayton. Directional signs posted throughout the area facilitate travel to the campus.

The West Campus is located on Germantown Pike (State Route 4 West) near the intersection of Gettysburg Avenue. City bus routes serve both campuses.

The East Campus, situated on Patterson Road five miles to the east of the Main Campus, houses in Marianist College over two-hundred religious Brothers of the Society of Mary who are students at the University.

(See map, inside back cover.)
MAIN CAMPUS

LEGEND
1. Albert Emanuel Library
2. Fieldhouse
3. Flyers Hangar
4. Baujan Field
5. St. Joseph Hall
6. Chapel of the Immaculate Conception
7. St. Mary Hall
8. Women's Gymnasium, Music Building
9. Post Office
10. Chaminade Hall
11. Liberty Hall
12. Zehler Hall
13. Power House
14. Religion Building
15. John F. Kennedy Memorial Union
16. School of Business Administration
17. Sherman Hall of Science
18. Wohlleben Hall
19. Alumni Hall
20. Founders Hall
21. ROTC Building
22. Mechanical Engineering Laboratory
23. Marycrest Residence Hall
24. Stuart Hall
25. Maintenance and utility buildings
CAMPUS AND BUILDINGS
Principal buildings on the Main Campus, with the date of construction of each in parentheses, are as follows:

Albert Emanuel Library (1928)
This is the University's main library, housing two hundred thousand books and bound journals. Branch operations of the library are located in other buildings on the campus. The building, now enlarged by the addition of two sizable wings, was erected by the late Victor C. Emanuel, an alumnus, in memory of his father. Occupying one wing of the building is the internationally famed Marian Library, containing the largest collection of Mariana in the western hemisphere.

University Fieldhouse (1950)
Home base of the Dayton Flyers, nationally prominent University basketball team, the Fieldhouse also houses the offices of the Department of Athletics and the Department of Health and Physical Education. University convocations and commencement exercises are conducted in this six-thousand-seat arena.

Flyers Hangar (1962)
A smart snack shop and cafeteria, the "Hangar" is a popular between-classes gathering place for students.

Baujan Field (1925)
The University football stadium, with a seating capacity of fourteen thousand, is named for Harry C. Baujan, long-time athletic director at the University.

St. Joseph Hall (1884)
One of the oldest buildings on the campus, St. Joseph Hall has seen many uses. It now houses classrooms and laboratories, faculty offices, and the administration of the Technical Institute.
Chapel of the Immaculate Conception (1868)

Dedicated to the patroness of the University, the main chapel is the focal point of religious life on the campus.

St. Mary Hall (1870)

When it was built, St. Mary Hall was the largest building in the city of Dayton. For many years, practically the entire school was centered in its five floors. Today it houses the University's principal administrative offices and the Psychological Services Center.

Women's Gymnasium and Music Building (1874)

Headquarters of the women's physical education program (first floor) and the Department of Music (second floor), this building was originally a "Play House" and chemistry laboratory.

Post Office (1903)

The University's postal service includes a federal Post Office contract station, assuring efficient service features for the campus.

Chaminade Hall and Arcade (1904)

Named for the founder of the Society of Mary, Father William Joseph Chaminade, this building provides the quarters of the School of Education and the University Bookstore. The Arcade joins Chaminade Hall to St. Mary Hall.

Liberty Hall (1866)

This small, two-story structure is used as a service building.
Zehler Hall (1865)
The oldest of the present campus buildings, Zehler Hall houses faculty offices, the University Printing Service, and some research activities.

Power House (1898)
Heat and power for older campus buildings is supplied through this facility. The University laundry also operates in the Power House.

Registration Building (1921)
The planning and business of registration are expedited in this building.

John F. Kennedy Memorial Union (1964)
The “University Living Room” includes a little theater, cafeteria and snack shop, ballroom, art galleries, lounges, bowling alleys, and other “union” type facilities. It is named for the late President of the United States.

Miriam Hall (1965)
Construction of this modern classroom and office building was completed during this past year for the School of Business Administration. It was named in memory of a great philanthropist, Miriam Rosenthal, without whose labor and enthusiasm the funds for erecting the edifice would not have been available.
SHERMAN HALL OF SCIENCE (1960)
Honoring the late John Q. Sherman, distinguished Dayton industrialist and philanthropist, Sherman Hall includes the administrative offices of the College of Arts and Sciences, classrooms and laboratories of departments of Biology, Physics, Nursing, Home Economics, Psychology, and Mathematics, and the Computation Laboratory.

WOHLLEBEN HALL (1958)
The departments of Chemistry, Chemical Engineering, and Geology, and administrative offices of the Research Institute are located in Wohlleben Hall, named for the late Brother William J. Wohlleben, Marianist Brother who introduced chemistry and chemical engineering studies to the campus. It also houses the office of the Dean of the School of Engineering.

ALUMNI HALL (1924)
This faculty residence for members of the Society of Mary is also the location of the University Health Center.

FOUNDERS HALL (1954)
Honoring the founders of the University, this men’s residence hall is conveniently located in the center of the campus.

ROTC BUILDING (1952)
Regarded as the finest ROTC facility in the Army’s Twentieth Corps area, which includes Ohio, Kentucky, and West Virginia, the building is the headquarters of the Department of Military Science. Among its outstanding features is a large indoor rifle range.
MECHANICAL ENGINEERING LABORATORY (1948)

Laboratories of several engineering departments are located in this building which was originally a drill hall at Camp Perry, Va. It was dismantled and brought to Dayton, rebuilt and bricked.

MARYCREST (1962)

Marycrest is the University's first and only residence hall for women. It is home for more than nine hundred women students, and has its own cafeteria, lounge, and chapel.

STUART HALL (1963)

This new men's residence hall provides modern accommodations for some seven hundred students. Its name honors John Stuart from whom the pioneer Marianists obtained the original University property.

WEST CAMPUS, UNIVERSITY HALL

In 1960, the University acquired through the federal government surplus program a large property in the western section of Dayton which had been a part of the vast Veterans Administration Center. The property included a large hospital building. This building was converted into University Hall and the entire property, including housing facilities, cafeteria, classrooms, and indoor and outdoor recreational areas, is known as the West Campus. Residents of this campus are primarily freshman men. Regularly scheduled busses bring students back and forth from the Main Campus throughout the day and evening hours.

EAST CAMPUS, MARIANIST COLLEGE

Marianist College (1961) is located on the eastern outskirts of Dayton. It is the house of studies for religious members of the Society of Mary. These students
pursue their collegiate studies, some on the East Campus, some on the Main Campus. On the East Campus are also located a dormitory, classroom and administration building (1915); a gymnasium and recreation building called Sieben Hall (1961); a convent (1926) for Sisters; and a retreat for students and men called Marianist Retreat House (1911).

RESERVE OFFICERS TRAINING CORPS (ROTC)
The Department of Military Science conducts the Reserve Officers Training Corps (ROTC) program on the campus, providing instruction in general military subjects applicable to all branches of the Army.

Objective of the program is to produce junior officers who by their education, training, and inherent qualities of leadership are suited to continued development as officers in the Army of the United States.

The ROTC program is divided into a basic and an advanced course. All male students who are physically qualified and have not completed the basic course or its equivalent are required to enroll in the basic course during the freshman and sophomore years. For eligible students, satisfactory completion of the basic military course is a prerequisite for graduation from the University. Students in the basic course are excused from the physical education requirement.

Admission to the advanced course, which is also a two-year program, is on an optional-selective basis, requiring approval of the President of the University and the Professor of Military Science.

Satisfactory completion of the advanced course qualifies the student for consideration for commission as a second lieutenant in the Army Reserve. In addition, selected outstanding students may become eligible for commission in the Regular Army.

Students enrolled in military courses are issued appropriate uniforms, insignia, books, and other equipment. Those in the advanced course receive forty dollars a month; but while in attendance at summer camp, which is required of all advanced students between their junior and senior years, they receive approximately one hundred and twenty dollars a month, plus travel expenses from home to camp and return.

Flight training, which leads to a pilot's license, is an optional feature of the ROTC program.

Subject to deferment quota limitations which are prescribed by the Selective Service Act, selected ROTC students are deferred from induction into the Armed Forces as long as they remain in good standing in their academic and military courses.
II Student Life and Services

RESIDENCE FACILITIES
Living together with fellow students from many parts of the world is, the University of Dayton feels, a vital part of a college education. Thus, it is the University's policy that all freshmen, men and women, live in one of the several campus residence halls, unless their home is within commuting distance, and unless, further, the residence halls are already fully occupied.

Campus residence halls are designed and maintained to provide as pleasant accommodations as possible.

Freshman students are usually sent housing information and a housing contract with the letter of acceptance by the Admissions Office. The housing contract should be sent in without delay. The Housing Officers in charge of housing freshman men and women make every effort to place new students in the residence halls. However, many students presently enrolled likewise wish to live in the residence halls. Freshmen will do well to protect themselves by returning the housing contract immediately.

Men freshmen are housed in either Stuart or University Halls. Women freshmen are housed in Marycrest Hall.

Accommodations in all residence halls are mostly semi-private, with two students living together. Rooms contain twin or double deck beds, desks, and ample closet space for clothes. Bed linens are supplied. Students are required to furnish their own towels, washcloths, blankets and study lamps. Electric blankets are expressly forbidden.

Each residence hall has a head resident, who gives general direction to the affairs of the hall. In addition, each floor has an upperclassman as advisor. Each hall has available the counseling and religious direction of a chaplain, whose offices are usually located adjacent to the hall’s chapel.

At the University of Dayton, residents of the. individual halls engage in many cooperative efforts. Some have their own small newspaper; many take part
in intramural athletics as representatives of their residence halls. A spirit of cooperation is encouraged in all the halls, with students in similar fields living in nearby rooms.

Recreational areas and quiet study areas are within easy reach of all rooms. Overall supervision of residence halls is in the hands of the Dean of Men and the Dean of Women. Requests for information concerning accommodations in the halls should be addressed to them.

The University maintains an Off Campus Housing Office for students unable to secure accommodations in one of the residence halls.

**DINING FACILITIES**
The University's food service is operated in four principal facilities. The main cafeteria is located in the Kennedy Memorial Union and contains a dining area seating four hundred students. Adjacent to this facility in the Union is a snack bar where light lunches may be obtained.

Marycrest cafeteria is located in the women's residence hall and is a smartly decorated modern dining room.

The University Hall cafeteria, located on the West Campus, serves the students residing in this residence hall.

The Flyers Hangar serves light lunches consisting of sandwiches, salads, soups, pastries, and beverages. It is a popular meeting place for the student body during the day and the early evening hours.

All food service on both campuses is operated under the direction of a professional manager, with qualified assistants managing each of the separate facilities.

Well-rounded, appetizing meals are served attractively in quantities appropriate to the needs of still growing young men and women. Food service is of such proportions at the University that more than a million meals a year are served in the four cafeterias.

**STUDENT ORGANIZATIONS**
The University of Dayton campus abounds in student organizations. Any student from any part of the world, no matter what his interest, will find at least one group on the campus from which he will derive benefits and in turn benefit the group.

Included are student government units such as the Student Council and the Central Women's Organization; religious clubs such as Christian Careers Unlimited and the Sodality; social groups such as the International Club, and the many organizations such as the Cleveland and Cincinnati and Knickerbocker and Illini clubs; co-curricular or academic organizations from the Art Club and
Debate Team to the honor societies in the various colleges and schools; and there are musical, military, and athletic clubs—all designed to help the student further his educational, religious, or social well-being while at the University. Students also publish a weekly newspaper, a quarterly literary magazine, an annual pictorial review, and other special interest publications.

Each of the campus clubs elects its own officers and has a member of the faculty as adviser.

At the beginning of each academic year, students are issued a handbook in which every organization is described in detail. And during the regular orientation week early each year, new students are invited to become members of the various clubs.

LITURGICAL LIFE
As a Catholic college, the University of Dayton places great emphasis on the liturgical life of the student. All Catholic day students are strongly encouraged to attend a weekly chapel service on campus at which Mass is offered and opportunities for the reception of the sacraments are provided. Regular attendance, it is felt, insures the integration of thought and action, of belief and practice, which is envisioned by the University in its professed purposes. At the same time, by enabling the students to pray and worship together, a spirit of unity and solidarity is fostered among them, thus creating a genuine Christian atmosphere on the campus.

Mass is celebrated in the Chapel of the Immaculate Conception (the main chapel) five times each morning during the week and six times on Sunday. At least one Mass each day (morning or evening) is offered in the chapels of the residence halls. Confessions are heard before, during, and after all Masses in the main chapel each day, and before the daily Mass in all the dormitories.

Special liturgical devotions are held on campus throughout the Church year. Of special note is the Rosary Rally in the month of the Most Holy Rosary, the Advent Wreath and Liturgical prayers on each Sunday of Advent, and the
Holy Week services, the highest point of the Liturgical Year. An annual one-day retreat is expected of each University student, and such an exercise is regularly scheduled. Two nearby retreat houses make it convenient for a student, if he so desires, to engage in a weekend retreat.

The Chaplain and Associate Chaplain of the University supervise all spiritual group activities of the student body and of all religious organizations. The many priests on the faculty, under the direction of the Chaplain, are available at all times for counseling on moral, religious, or social matters.

TESTING
The University Psychological Services Center provides a complete testing program for the students of the University, and for industry and the community at large. Besides this local service, the Testing Center conducts testing programs for Catholic elementary and high school students in fifteen States and is under contract to the U.S. Government to administer the National Defense Education Act (N.D.E.A.) tests in secondary private schools in thirty-eight States.

COUNSELING AND GUIDANCE
In addition to the testing services for University full-time students which are used to help the student identify his talents and aptitudes and thus guide him into proper fields of study, the Psychological Services Center offers the student the opportunity to seek advice in personal, social, and academic problems which he may encounter.

Well-qualified psychologists direct and participate in the work of the Center —work which goes beyond the campus to provide counseling, guidance, and other psychological services to schools, business, and industry.

Specific counseling in all study areas is provided by the deans of the schools and colleges, by the departmental chairmen, and by individual faculty members who are available throughout the day, subject to their administrative and teaching schedules.
PLACEMENT
The University maintains a placement office which energetically assists students in securing part-time work to help them financially while attending school. Details of this operation are treated under “Financial Aids” below.

In addition to the efforts in behalf of students, the placement office also maintains an exceptional liaison with business and industry throughout the nation, and arranges interview sessions between recruiters and senior students, assisting the graduating student in his choice of prospective employment or association. This same service is also provided the University’s alumni without charge.

STUDENT HEALTH SERVICES AND INSURANCE
Centrally located in Alumni Hall, the University Health Service provides a well-staffed and well-equipped operation to safeguard the health of the student. The University physician, on call at all hours, is on duty during morning hours daily for advice and treatment. A staff of ten professional nurses works around the clock.

Full-time students may come to the Health Service for out-patient treatment by the staff on duty at the time, and no restriction is made on the number of visits. Ordinary medications are provided without charge when ordered by the attending physician.

Students whose permanent residence is not within commuting distance may avail themselves of the in-patient service of the infirmary at a nominal cost. When the case warrants, students are transferred to local hospitals.

Infirmary or hospital costs are covered for the most part by the highly recommended student insurance program which is available to all full-time students. Blue Cross and Blue Shield family coverage expires when the student reaches age nineteen, and this student insurance plan continues much of this coverage at a nominal rate. (Full information on this program may be obtained by writing to the Office of Student Accounts.)

STUDENT IDENTIFICATION CARDS
At the beginning of the school year, each full-time student secures a student identification card (I.D. card) which he carries with him at all times. Provision for obtaining the card, complete with the student’s photograph, is made during registration procedures. The I.D. card is vital and obligatory for the student, since it is necessary for participating in student elections or other activities for which official identification is necessary. It must be shown in order to obtain tickets to certain athletic events.
PARKING
Parking facilities are extremely limited on the Main Campus. Those that are available are restricted to commuting students who live some distance from the campus, and all such parking is by permit only. Students may apply for permits. Students residing on the West Campus are permitted to have cars and to park them on campus.

CULTURAL ACTIVITIES
Principally through its very successful University Arts Series, but as well through various other programs throughout the year, the University of Dayton provides for the student well-planned and coordinated opportunities for association with high-level intellectual and cultural ideas and personalities.

Among renowned guests to appear on the University Arts Series have been Contralto Marian Anderson, Poets Louis Untermeyer, John Ciardi, and W. H. Auden, Philosopher Mortimer Adler, Publisher Frank Sheed, Illinois Senator Paul Douglas, the Roger Wagner Chorale, the Dayton Civic Ballet, Journalists Drew Pearson, Marquis Childs, Ralph McGill, and Harry Golden. The Dayton Philharmonic Orchestra, the University Concert Band and the University Choir appear each year.
Arts Series programs are given on the campus in mid-day, making attendance convenient for the student. Since the series, which has been extremely well-received, is supported through the student activities fee, there is no admission charge for the individual programs.

In addition to this series, many other continuing programs are offered for the student each year. Among these are the regular productions of the talented University Players; the University Lecture Series, presenting members of the faculty in an eight-week program of intellectual discussions; the Evening Religion Series, bringing to the campus outstanding theological scholars; annual lectures sponsored by the Department of History in which known historians are brought to the University; an interesting variety of musical and discussion programs on WVUD-FM; and lectures by outstanding men and women in many other fields of interest.

Many outstanding musical, dramatic, and artistic programs are given throughout the year in the Dayton community. Most offer student rates and are well advertised on the campus.
SOCIAL LIFE
Realizing that "all work and no play" will indeed dull the young student, the University of Dayton provides and encourages participation in a wide variety of social functions.

Small informal social events are given on the campus almost every weekend. Bigger, more formal occasions, such as the Homecoming Dance, or the Junior Prom, are usually held off the campus. Social functions are attended by members of the faculty, acting as chaperones.

RECREATION
Both campuses of the University are equipped with recreational areas where, over and above intramural programs on an organized basis, the student may take part in recreation. Each residence hall has its own recreational areas; the Fieldhouse on the Main Campus and the gymnasium on the West Campus have facilities for individual calisthenics and similar programs. The new Kennedy Union includes bowling alleys, browsing rooms, music and art rooms. Tennis courts, outdoor and indoor basketball courts, baseball diamonds, and playfields are available on both campuses. During the winter months, skiing, tobogging, and ice skating in nearby parks are popular with students. Downtown Dayton has a number of fine theaters and several campus organizations frequently present recent motion pictures in campus auditoriums as fund-raising ventures; these are well attended.
ATHLETICS
Participation in athletics is an integral part of the educational development that the University strives to achieve for all its students. This applies both to intercollegiate and intramural athletics.

All students are encouraged to engage in some form of athletic activity according to their ability. This is particularly emphasized for students majoring in physical education, for whom the various athletic activities have special importance in view of the career for which they are preparing.

The University feels that athletics, intercollegiate and others, cultivate a sense of unity which is one of the important factors in student morale.

Many persons throughout the country have come to know the University of Dayton through the accomplishments of its basketball team, the Dayton Flyers. Highly ranked among the nation's independents, the Flyers in 1962 won the coveted championship of the National Invitation Tournament. The University also engages in intercollegiate competition in football, baseball, tennis, golf, soccer, ice hockey, and field hockey.

There are highly competitive intramurals in all sports including golf, tennis, softball, touch football, basketball, and volleyball.

THE STUDENT HANDBOOK
As a member of the University family, there is much more detailed information the student will want to know. This information is given in a separate publication called THE STUDENT HANDBOOK. Both student and parents are strongly urged to familiarize themselves with the contents of this publication.
Admissions

Requirements for Admission

For admission to a freshman class, the applicant must submit a written application, a satisfactory high school record, and results of the Scholastic Aptitude Test (mathematics and verbal) of the College Entrance Examination Board. The application must be on a form which the prospective student may obtain by writing the Director of Admissions.

A student is allowed to register only after all credentials have been received and evaluated and a registration permit has been issued.

The applicant for the freshman class must present sixteen units from a high school accredited by some regional accrediting association or by a State Department of Education, and have a total record indicating likelihood of success in college. Certain courses of study require specific entrance units, as follows:

Entrance Units Requirements

<table>
<thead>
<tr>
<th>Degrees</th>
<th>English</th>
<th>Language</th>
<th>Algebra</th>
<th>Geometry</th>
<th>Trigonometry</th>
<th>Mathematics</th>
<th>Chemistry</th>
<th>Physics</th>
<th>Science</th>
<th>History</th>
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<td>Arts degrees</td>
<td>3-4</td>
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<tr>
<td>Science degrees</td>
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<td>Business degrees</td>
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<td>b) secondary, art,</td>
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<td>art, music and speech</td>
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<td>c) physical and</td>
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<td>home economics</td>
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<tr>
<td>Engineering degrees</td>
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<tr>
<td>T.I. degrees</td>
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<tr>
<td>Police Administration</td>
<td>3-4</td>
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* No trigonometry is required for Medical Technology and Home Economics degrees.
All exceptions to the foregoing admission rules must be approved by the Academic Council.

The University bases its acceptance of a prospective student on a satisfactory high school record, recommendation of the high school principal, and the results of the Scholastic Aptitude Test.

ADVANCED PLACEMENT
The University accepts the advanced placement program offered to secondary schools under the auspices of the Advanced Placement Committee of the College Entrance Examination Board.

The University will give not only advanced placement but also credit to students enrolled in the program, provided that such students have taken the tests provided and scheduled by the College Entrance Examination Board and have received a favorable interpretation grade from the Educational Testing Service.

Students desirous of receiving advanced placement under this program are to arrange that test scores be sent to the University Office of Admissions, which
will grant advanced standing with or without credit in the appropriate subject areas. Credit, when given, will be recorded as Em credit and will be determined by the interpretation grade:

- For a score of "5", two terms of advanced standing with credit.
- For a score of "4", one term of advanced standing with credit.
- For a score of "3", one term of advanced standing without credit.

Scores below "3" do not entitle the applicant to either credit or advanced standing.

High school students in the senior year may under certain conditions take courses at the University of Dayton for advanced standing with credit. Interested students should seek further details from the Registrar.

TRANSFER STUDENTS
The admission of transfer students is controlled by a special Committee on Admissions comprising the Provost of the University, the Director of Admissions, and the Dean of the School concerned.

In addition to the credentials required of all applicants, a transfer student must present an official transcript of credits and a statement from the school last attended confirming that he was honorably dismissed and that the school would be willing to enroll him again.
The University, through the executive officer of the Admissions Committee, will accept transfer students in the following categories:

1. students who have established credit in less than thirty-two semester hours work (or the equivalent) with a grade point average of 2.00 or higher out of a possible 4.00;

2. students who have established credit in not less than thirty-two semester hours work nor more than sixty-three semester hours work (or the equivalent) with a grade point average of 2.25 or higher out of a possible 4.00;

3. students who have established credit in sixty-four semester hours work (or the equivalent) with a grade point average of 2.50 or higher out of a possible 4.00. (Grade point averages will be calculated on the basis of all work taken and in University of Dayton equivalents.)

Transfer students who cannot meet the above requirements but who feel that, by reason of extraneous circumstances, their cases merit additional consideration, may have their applications referred to the Committee on Admissions for final decision. Such referrals must be made to the Committee no later than four weeks prior to the first day of registration for the term in which enrollment is desired.

APPLICATION AND ADMISSIONS PROCEDURES

The prospective student should write to the Director of Admissions requesting application forms. This request should be made at the beginning of the applicant's senior year in high school.

After completing the forms, the applicant must affix a check or money order in the amount of ten dollars, made payable to University of Dayton, and present the application to his high school principal and/or high school counsellor.

The principal and/or high school counsellor completes those portions of the forms so designated (recommendation of the applicant, and official records of high school performance) and mails them to the University.

If the applicant is in the upper third of the class and has 1000 on Junior SAT his application is given immediate attention by the Committee on Admissions. If he is not within the upper third of the class or does not have 1000 on Junior SAT, his application is held until he has completed seven semesters of high school and grades are received, as well as Senior SAT scores.

After the Committee on Admissions studies the application, the applicant is notified if he has been found "acceptable" or not. Those "acceptable" must, within twenty days of such notice, forward a twenty-five dollar deposit—the applicant's assurance to the University that he intends to register.

Prospective students who have designated on their applications that they wish to live in campus housing will receive a contract for such accommodations. This must be properly filled in, and a fifty dollar deposit made.
These two latter deposits are applicable to the student's bill at the first registration, except for ten dollars of the housing deposit which is retained to cover possible damage to his room during occupancy.

EDUCATION OF VETERANS
All departments of the University have been approved by the Veterans Administration for training under United States Code, Title 38, Chapters 31, 33, and 35. Credits earned during military service are accepted after an evaluation in terms of the University's standards and the course of study for which the veteran applies. An adequate counseling service is available under the direction of the Veterans' Adviser whose office is located in Room 114, St. Mary Hall.

PHYSICAL EXAMINATIONS
Physical examinations are required of all new full-time students. These examinations are to be performed by a private physician of the student's choice and the results submitted on the special form supplied by the Office of Admissions. The form must be returned, completed, to the admissions office for transmittal to the University Health Service to fulfill admission requirements. This must be done prior to registration. Physical examinations are not required of Police Administration students who are already in police service.
IV Financial Information

GENERAL POLICY
The tuition and fee charges of the University are set at the minimum permissible for financially responsible operation, and in general, these charges are less than the actual costs incurred. Gifts and grants received through the generosity of industry, friends, and the alumni of the University help to bridge the difference between income and costs. When need arises, the trustees of the University reserve the right to change the regulations concerning the adjustment of tuition and fees at any time, and to make whatever changes in the curricula they may deem advisable.

All fees and tuition are payable in full at the time of registration for the semester, unless arrangements for payment by some deferred payment program are made with the Office of Student Accounts prior to the completion of registration.

No student will be registered for a new semester, unless the account for the previous semester is settled.

Transcript of credits and honors of graduation will be denied students whose bills have not been paid.

All checks should be made payable to the UNIVERSITY OF DAYTON.

Tuition reductions are granted to some unmarried children from the same family attending classes, full-time, simultaneously, and not on scholarship, if certain conditions are fulfilled. Inquiries regarding such reductions should be made through the Office of Student Aid at the time of registration.
EDUCATIONAL CHARGES

June, 1965 through August, 1967

Application Fee, payable once, upon application ................................ $ 10.00
Matriculation Fee, payable once, at entrance .......................................... 10.00
Testing and Counseling Fee, payable once at entrance ............................ 17.00
Freshman Orientation Fee ........................................................................ 33.00

Comprehensive Academic Charge, I & II Terms

<table>
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<tr>
<th>Charge Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Full Time Undergraduate Student per term</td>
<td>500.00</td>
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<tr>
<td>Full Time Student Teacher per credit hour, including the supervising teacher fee</td>
<td>30.00</td>
</tr>
<tr>
<td>Full Time Fine Art Student per credit hour, when taking art courses at Dayton Art Institute simultaneously</td>
<td>30.00</td>
</tr>
<tr>
<td>Basic University Fee, all Full Time Students per term</td>
<td>25.00</td>
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Part Time Undergraduate Students, I & II Terms, and All Undergraduate Students, Each Split Term

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<tr>
<th>Charge Description</th>
<th>Amount</th>
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<tbody>
<tr>
<td>Registration Fee</td>
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<tr>
<td>Tuition per credit hour</td>
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</tr>
<tr>
<td>Fee per Laboratory clock hour</td>
<td>18.00</td>
</tr>
<tr>
<td>Laboratory Materials and Equipment Fee (variable)</td>
<td>5.00 to 20.00</td>
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<tr>
<td>Basic University Fee</td>
<td>2.00 per credit hour—not to exceed 10.00</td>
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Undergraduate Credit Hours Above Normal Full Time Load

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<th>Charge Description</th>
<th>Amount</th>
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<tr>
<td>Students on Dean's List previous full term (3.5 p.a.)</td>
<td>No charge</td>
</tr>
<tr>
<td>Other Students Having Specific Authorization of Dean</td>
<td>25.00</td>
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Refundable Fees, Each Term

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<td>Laboratory breakage deposit</td>
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<tr>
<td>R.O.T.C. Uniform deposit</td>
<td>20.00</td>
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<tr>
<td>Service Charge for Registration Exceptions</td>
<td>2.00 to 5.00</td>
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<td>Late Registration Service Charge</td>
<td>5.00 to 15.00</td>
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<td>Proficiency and Final Make-up Examinations</td>
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<tr>
<td>Graduation Fee, Undergraduate and Graduate Students</td>
<td>26.00</td>
</tr>
<tr>
<td>Books and Stationery (variable)</td>
<td>10.00 to 55.00</td>
</tr>
</tbody>
</table>

Full-Time Students

A student with an academic schedule of at least twelve lecture credit hours is considered a full-time student. Students from outside the Dayton area must be full-time students. With this status and upon payment of the tuition and applicable fees he is entitled to the benefits of the various activities.
PART-TIME DAY STUDENTS
A day student with an academic schedule of six to eleven lecture credit hours is considered a part-time day student. Tuition and other fees apply to him the same as for the full-time student except for the University fee which is pro-rated.

SPECIAL STUDENTS
Special students, non-matriculated students, and auditors are subject to the various expenses as outlined above. Such students are not subject to the University fee unless they wish to participate in the activities which it covers.

CANCELLATION AND REFUNDS
Cancellation will be allowed only after the completion of the proper withdrawal forms. Students who discontinue class attendance without officially completing the withdrawal procedures during the cancellation period will be responsible for the full amount of the applicable tuition and fees. Those called to military service before the end of a given term should consult with the Provost of the University concerning possible credits and financial adjustments.
During the four-week cancellation period for the first and second terms, the tuition charges will be made according to the following schedule:

- During first week of classes: 20%
- During second week of classes: 40%
- During third week of classes: 60%
- During fourth week of classes: 80%
- During or after fifth week of classes: 100%

During the two-week cancellation period for each session of the split term, the tuition charges will be made according to the following schedule:

- During first week of classes: 35%
- During second week of classes: 70%
- During or after third week of classes: 100%

The special course and laboratory fees are not refundable nor is the University Fee for student activities.

RESIDENCE FACILITIES FEES

Students from outside the Dayton area reside on the campus unless the residence halls are fully occupied. Meals are provided in the cafeteria assigned to service the particular residence hall. The student may choose either the five-day meal service (three meals a day, Monday through Friday) or the seven-day meal service (three meals a day, Monday through Saturday; Sunday breakfast and noon dinner). The following rates include room rental, meal service, and bed linens; vacation periods are excluded.
### CHARGES FOR ROOM AND BOARD
**MAY 2, 1966 THROUGH AUGUST, 1967**

<table>
<thead>
<tr>
<th></th>
<th>1st Split Term</th>
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| **FULL TIME STUDENTS—MEN** |                |                |               |              |
| Double Occupancy (5 Day Meal Ticket) | 135.00          | 135.00         | $325.00       | $325.00      |
| Double Occupancy (7 Day Meal Ticket) | 160.00          | 160.00         | 380.00        | 380.00       |
| Triple Occupancy (5 Day Meal Ticket) | 300.00          | 300.00         | 355.00        | 355.00       |
| Triple Occupancy (7 Day Meal Ticket) | 325.00          | 325.00         |              |              |
| Room Deposit to Cover Possible Damage (refundable) | 10.00           | 10.00          | 10.00         | 10.00        |

| **OFF-CAMPUS HOUSING—U.D. OWNED** |                |                |               |              |
| Room Only (Rates Variable) | 60.00           | 60.00          | 130.00        | 130.00       |
| Room Deposit to Cover Possible Damage (refundable) | 80.00           | 80.00          | 180.00        | 180.00       |

| **MEAL TICKETS—OFF-CAMPUS** |                |                |               |              |
| **FULL TIME STUDENTS** |                |                |               |              |
| 5 Day Meal Service | 85.00           | 85.00          | 165.00        | 165.00       |
| 7 Day Meal Service | 110.00          | 110.00         | 220.00        | 220.00       |
Students who cannot secure accommodations in the residence halls because of limited space may make arrangements to reside in approved housing in the vicinity of the University through the Housing Office. University cafeterias are closed on Sunday evening. However, vending areas are available in the residence halls for light lunches.

During vacation periods students may continue to reside in residence halls at a nominal charge. The main University cafeteria is open during this period and students may purchase meals on a cash basis.

Requests for accommodations in the residence halls should be addressed to the Dean of Men or to the Dean of Women.

Applications for room reservations must be accompanied by a fifty-dollar deposit of which forty dollars will be credited to the student's bill for the first session of attendance. The remaining ten dollars will be held as a deposit against any room damage which may result during the occupancy.

Students who cancel room reservations prior to July 15 (for fall term occupancy), December 1 (for second term occupancy), April 1 (for first split term occupancy), or June 1 (for second split term occupancy), will be entitled to a refund of the fifty-dollar deposit.

Those who cancel reservations after these dates forfeit the entire deposit.

All students living in residence halls are required to observe University regulations in general along with the specific requirements of each hall, and will be held responsible for any damage to their rooms during occupancy. The cost for any unnecessary damage to the various community areas (lounges, utility rooms, halls, etc.) will be pro-rated to all residents of the area of damage in cases where individual responsibility is not ascertained.

SCHOLARSHIPS AND LOANS

The University offers qualified students a large number of scholarships and financial aids. Prospective students should write the Office of Student Aid for specific information.

Some of the plans available include the following:

**University Partial Scholarships** Awards are made for one year, renewable, based on academic ability and need.

**Dayton Area and Marianist Scholarships** Offered to the first- and second-ranking senior of Dayton area and Marianist high schools with enrollments of one thousand or more; and to the first-ranking senior in schools of less than one thousand students. Full-tuition for eight consecutive terms is covered.
BUSINESS, INDUSTRY SCHOLARSHIPS Various business, industries, civic, fraternal, and professional organizations, and foundations provide funds for many scholarship awards. (Many companies and organizations in a student’s hometown also provide outstanding grants to children of employees and members. Students are encouraged to investigate such offers.)

NATIONAL DEFENSE EDUCATION ACT LOANS NDEA loans are granted under conditions established by the 1958 act.

GUARANTEED BANK LOANS The University works with several state commissions—including Ohio, New York, New Jersey, Connecticut, Massachusetts, and Indiana—in handling guaranteed bank loans.

STUDENT EMPLOYMENT
More than half of today’s college students hold some form of employment, part-time or full time, to help meet educational expenses. The University provides many such opportunities on the campus, and through the Placement Office, helps the student locate such opportunities off the campus.

Last year, students earned a total of more than $400,000 for part-time work with the University’s Research Institute. Others worked in campus cafeterias, libraries, and dormitories. The Placement Office helped some students find work off the campus. Such off-campus work brings the student an average of fifteen to twenty dollars a week.
V Academic Regulations

REQUIREMENTS FOR DEGREES
All bachelor's degrees granted by the University of Dayton require a minimum of one hundred and twenty-four semester credit hours. These credits must be distributed over eight terms in point of time.

Requirements of the different degrees are listed under the various schools.

One year of residence or thirty semester credit hours—ordinarily the senior year—is a minimum requirement for any bachelor's degree.

A semester credit hour represents three hours of the student's time each week for one term. This time may be assigned to work in classroom, laboratory, or to outside preparation. The number of lecture, recitation, laboratory, or other periods required each week is to be found in the list of instruction.

All undergraduate students are limited to a term course load of seventeen semester credit hours, or to five courses, not including required courses in ROTC or physical education. Any exception to this rule requires the express permission of the Dean.

Students enrolled in the University as candidates for degrees should not take courses at other colleges or universities without first obtaining written permission from their respective deans. If the permission is granted, the dean will request "transient status" for such students at the institutions which they designate. The University reserves the right to refuse the acceptance of credits in transfer when this procedure has not been followed.

The Bachelor of Science in Education degree may be awarded to holders of non-professional degrees from the University of Dayton with the completion of a minimum of thirty semester credit hours beyond the requirements of the non-professional degree. Otherwise, for a second bachelor's degree, a minimum of forty-eight semester hour credits in upper-level courses (plus prerequisites) is required. For a second associate degree, a minimum of twenty-four semester hour credits in the area of specialization (plus prerequisites) is required. Moreover, students seeking a second degree must complete, either as part of or in addition
to the above minima, the prescribed philosophy and theological studies courses of the general curriculum requirements, if they have not already done so as part of their first degree.

GENERAL CURRICULUM REQUIREMENTS

Day students following four-year programs are required to complete successfully certain prescribed courses as follows:

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\(^1\)Women take PHE 110-1-2-3; men excused from R.O.T.C. take PHE 101-2, 201-2.
\(^2\)Non-Catholic students take PHL 403, 404, and two electives.

Students pursuing a degree in the Evening Session are expected to meet the requirements in communication arts, English, philosophy, and theological studies, but not in military.

Day and evening students following associate degree programs are required to complete successfully the communication arts, English, philosophy, and theological studies courses prescribed in their approved programs.
GRADES AND SCHOLARSHIP

A progress report of every student in each of his classes is submitted to the Registrar by every instructor at the middle of each term. Final grades are submitted at the end of the term and these are made part of a student's permanent record. Copies of these reports are given to the students and deans and are sent to the parents and guardians. The final grades of freshman students are also sent to their high school principals.

The official marks with their meanings and quality point values are as follows:

A—Excellent; for each semester credit hour, four quality points are allowed.
B—Good; for each semester credit hour, three quality points are allowed.
C—Fair; for each semester credit hour, two quality points are allowed.
D—Passing; for each semester credit hour, one quality point is allowed.

F—Failed. This mark indicates poor scholastic work, or failure to report withdrawal from a course. In such cases required courses must be repeated at the next opportunity. A student who receives an F in a required course may repeat the course. He may not, however, take the course a third time unless at the time of the second failure he has a cumulative point average of 2.50 or higher. Under no circumstances will he be permitted to take a course a fourth time. Refresher or remedial courses may be repeated only once. No quality point is allowed.

I—Incomplete. This grade may be given at the discretion of the instructor to any student who, for reasons beyond his control, has not completed some portion of the work of the term, provided that the rest of the work has been of satisfactory grade. It is not to be given if the student has been delinquent in his work, that is, when work has not been completed through his own fault. A grade of I is not to be marked at mid-term. An I must be removed within thirty days from the date listed on the grade report, or it will be changed to an F on the student's permanent record card. No quality point is allowed.

W—Withdrawn. During the first three weeks of a term (or the first week and a half of a split term) a student may withdraw from a class without record. Beginning with the fourth week (or the middle of the second week in a split term) all withdrawals are recorded F, if the student withdraws because of academic difficulty. When a student finds it necessary to withdraw from a class for any reason whatsoever, it is important that he notify his Dean immediately. Financial adjustments, if allowed, will be made only from the date of notification.

K—Credit. This mark is used for work credited from other institutions by the Office of Admissions and for workshops. No quality point is allowed.
X—Audit. This mark indicates that the student has registered to audit the course. No credit hours or quality points are awarded for this mark.

Em—Examination. This mark indicates credit given to students registered in the University either on the basis of the advanced placement program of the C.E.E.B. or of examinations taken prior to or after admission to the University. The level of achievement which must be demonstrated by the student on these examinations is determined by the department in which the course is taught. This credit, up to a maximum of twenty-four semester credit hours, shall be assigned only on authorization of the Dean of the School or College in which the student is registered. No quality point is allowed. No grade change of any kind is permitted after thirty days from the date listed on the grade report.

The semester grade point average is the total number of quality points divided by the number of semester credit hours carried by the student. In computing the cumulative grade point average, all grades except those for sub-college work are included; in cases where courses are repeated, both the original grades and the new grades are included. Marks of W, K, X and Em are disregarded in the computation of the grade point averages, but a course for which an F or an I is received is included in the usual manner.

ACADEMIC STANDING
The following rules will be observed regarding academic standing:

1. To be in good academic standing a student must have a cumulative point average of (a) at least 1.7 at the end of his first and second terms, (b) at least 1.8 at the end of his third, (c) at least 1.9 at the end of his fourth term, and (d) at least 2.0 at the end of his fifth and succeeding terms. A cumulative point average of at least 2.0 is required for graduation.

2. Any student who has a semester point average of 1.0 or less, regardless of his cumulative point average, will be dismissed from the University.

3. A cumulative point average below those required will automatically place the student on academic probation for the next term. The Registrar's office will indicate such probation on the student's permanent record.

A student on probation must follow a restricted program as follows:

a) His course load shall be reduced to fifteen semester hours, or less in the event his available study time is reduced by remunerative employment or by other activities and responsibilities either in the University or elsewhere.

b) Although he may retain membership in extra-curricular organizations, he shall not take part as a performer, an officer, or an active participant in any extra-curricular activity or any intercollegiate meeting, conference, or athletic event.
4. To remove probation a student must earn grades sufficiently high to attain the required cumulative point average. If he fails to do so he will be dismissed from the School or College in which he is enrolled. He may remain in the University only if he is accepted by the Dean of another School or College.

5. No student will be put on probation more than once in the same School or College.

6. In general, if it appears from the record that a student is not meeting requirements, either scholastic or otherwise, he may be placed on academic probation or he may be dismissed from the University.

7. A student dismissed because of unsatisfactory academic standing may, after the lapse of one calendar year, submit a petition to the Dean of the School or College of his last registration for reinstatement, and be reinstated on probation if the Dean is convinced of his ability and desire to do satisfactory work.

HONORS AND AWARDS
Honors and awards for scholarships are announced at the Honors Convocation.
To be graduated "With Honors" a student must have a cumulative point average for seven terms at the University of 3.5 or higher, based on 4.0. A student who has the required cumulative point average but has been in attendance at the University for less than seven terms may be graduated with honors if he is so recommended by the faculty of the School or College in which he is enrolled and if the recommendation is accepted by the Academic Council.

The notation of honors is made in the commencement program, on the diplomas, on the student’s permanent record, and on transcripts, as follows:

_Cum Laude_-if the cumulative point average is between 3.5 and 3.69;
_Magna cum laude_-if the cumulative point average is between 3.7 and 3.89;
_Summa cum laude_-if the cumulative point average is between 3.9 and 4.0.
Special awards for exceptional scholastic achievement are given annually through the generosity of donors. To be eligible for any of these awards a student must have a cumulative point average of at least 3.0. The awards:

**Accounting**—The Warren A. Kappeler ’41 and Jerome E. Westendorf ’43 Award of Excellence.

**Business Administration**—The Alpha Kappa Psi Scholarship Key, awarded by the Delta Nu chapter to the male senior with the highest cumulative point average.

**Business Management**—The Charles Huston Brown, in memory of Brother William Haebie, Award of Excellence in the Senior class.

**Chemical Engineering**—The Victor Emanuel ’15, in memory of Mrs. Albert Emanuel, Award of Excellence in the Senior class.

**Civil Engineering**—The Harry F. Finke ’02 Award of Excellence in the Senior class.

**Debating**—The Miss Elizabeth Jones Award for Excellence.

**Economics**—The Winters National Bank and Trust Company, in honor of Dr. E. B. O’Leary, Award of Excellence.

**Education**—The Father Rennecker Award donated by the Montgomery County chapter of the University of Dayton Alumni Association for outstanding achievement in teacher education. (Seniors only.)

**Electrical Engineering**—The Thomas R. Armstrong, in memory of Brother Ulrich Rappel and Mr. W. Frank Armstrong, Award of Excellence.

**Electrical Engineering**—The Anthony Horvath and Elmer Steger Award of Excellence in the Senior class.

**Elementary Education**—The George A. Pflaum Award for excellence in elementary school teacher education.

**Engineering**—The Tau Beta Pi Award for the outstanding freshman student.

**English**—The Catholic Poetry Society Award.

**English**—The Faculty Wives Club Award for excellence in composition.

**General Excellence**—The C.W.O. Award in both academic and extra-curricular activities. (Senior women only.)

**General Excellence**—The C.W.O. “Silver Anniversary of Coeducation Scholarship” given annually to an unmarried woman student of the University who has demonstrated superior academic proficiency and who is in financial need.

**Health and Physical Education**—The John L. Macbeth Memorial Award donated by Mrs. John L. Macbeth for excellence in teacher preparation for health and physical education.

**History**—The Dr. Samuel E. Flook Award of Excellence in the Junior class.

**History**—The Phi Alpha Theta Scholarship Key. (Senior members of Delta Eta Chapter only.)

**Home Economics**—The Upsilon Delta Chi Award for Outstanding Achievement.

**Mathematics**—The Mathematics Club Alumni Awards of Excellence in the Junior and Senior classes.

**Mechanical Engineering**—The Mrs. Louise A. and Mrs. Lucille Hollenkamp, in memory of Bernard F. Hollenkamp, Award of Excellence in the Senior class.

**Mechanical Engineering**—The Martin C. Kuntz ’12 Award of Excellence in the Junior class.

**Nursing**—The Nu Epsilon Delta Chi Award of Excellence.

**Oratory**—The Dr. G. S. Reilly Award of Excellence.

**Philosophy**—The Rev. Charles Polichck Awards of Excellence. (First and second; seniors only.)

**Psychology**—Award of Excellence donated by the Very Rev. Raymond A. Roesch, S.M.

**Scholar-Athlete**—The John L. Macbeth Memorial Award to the outstanding scholar-athlete in football and basketball. Recipient must have completed five or more terms and must have won his varsity letter.

**Secondary Education**—The University of Dayton Mothers Club Award for excellence in high school teacher education.

**Technical Institute**—The Techn I Club Award of Excellence to the graduating full-time student with the highest cumulative point average.

**Theological Studies**—The William Joseph Chaminade, in memory of Mr. and Mrs. George W. Dickson, Award of Excellence.
CLASS ATTENDANCE

Students are expected to attend all classes. The instructors will check attendance and report absences on the mid-term and term grade sheets.

The University, realizing that circumstances may arise that prevent a student from attending class, will tolerate a number of absences in any one course equal to twice the number of class meetings regularly scheduled for that course in one week. (This policy does not apply to military drill.)

Even though, under this policy, a certain number of absences are tolerated, the instructor has the right to require that the student make up the class work, assignments, quizzes, tests, etc., that have been missed because of absences. No grades will be deducted for the absences themselves.

Days before and after holidays and other days designated by the Academic Council will be regarded as double-absence days. Absences on such days will be counted as two absences instead of one.

No distinction will be made between excused and unexcused absences. When a student has exceeded the number of tolerated absences for any reason or combination of reasons (including participation in extra-curricular activities), he will be asked to withdraw from the class and he will be given an F on his grade report. It is the student's complete responsibility to see to it that he does not exceed the number of tolerated absences.

If a student has been on the Dean's List the previous term, i.e., if he has earned a 3.5 term average or better, the above rule will not apply in his case. He will be allowed to continue in the class even though he has exceeded the number of tolerated absences.

If a student not on the Dean's List has exceeded the number of tolerated absences for a course, he will be sent by the instructor of that course to his Dean for an official withdrawal.

TRANSCRIPTS

A transcript of credits may be requested from the Office of the Registrar. The official transcript may be sent to the institution or organization desiring it or to the student himself. There is a fee of fifty cents for a transcript with less than twelve credit hours. The fee is one dollar for a transcript with twelve or more credit hours. For transcripts ordered in lots of two or more, the fee is one dollar for the first copy and fifty cents for each additional copy. The first copy requested after graduation is a free copy.
VI College of Arts and Sciences

DR. LEONARD A. MANN, S.M., Dean
REV. RALPH GORG, S.M., Assistant Dean
ANN FRANKLIN, Assistant to the Dean

The purpose of the College of Arts and Sciences is two-fold: 1) to provide the means for a broad, liberal education directed toward the cultivation of the mind of the student and the optimum development of his intellectual capacities, and 2) to prepare the student for the practical task of making a living. In conformity with the purpose of the University, the College strives to obtain these objectives within the framework of the Christian principles which stem from philosophy and theology. Since these two disciplines are the integrating forces of the University, they enjoy within the College of Arts and Sciences the same primacy which they hold in the University itself.

Various programs are offered leading toward the degrees of Bachelor of Arts and Bachelor of Science. In all these programs adequate provision is made to attain the two-fold objective of the College. Thus, students majoring in a science will take courses in literature, foreign language, and the cultural branches of knowledge, such as history and music, to round out their education. Students working toward the Bachelor of Arts are obliged to take a minimum number of hours in science to complement the type of training provided by the humanities and the cultural subjects. The programs for both degrees also offer special preparation for the various professions, such as law, medicine, music, social service, personnel administration, etc. Students who are well qualified are encouraged and prepared to continue their education on the graduate level.

DEGREE REQUIREMENTS

For the Bachelor of Arts or Bachelor of Science degree, it is necessary to complete all the courses listed in one of the programs on the following pages. This will constitute a major field and usually a minor field. The total number of credit hours will vary from one program to another; the required number can be determined from the program in which the student is enrolled.

In most of the programs some courses are listed as electives. These courses are electives, not in the sense that they may be taken or not taken, but in that the student may elect any course that is offered for which he has prerequisites. They constitute an important part of his program, and permit some latitude in achieving the goals he has set for himself. It is always advisable to select these courses in consultation with the faculty adviser.

In the programs leading to the Bachelor of Arts degree, it is required that two years of foreign language be taken. This usually refers to a single language, but special modifications are sometimes made, with permission of the chairman of the department.

In the programs leading to the Bachelor of Science degree, one year of foreign language is required. Students who continue with the language studied in high school for two or more years, elect 201; all others elect 101.
The major field normally constitutes twenty-four hours of upper level courses, and the minor field, twelve. Under unusual circumstances, it is possible to modify this requirement by the substitution of courses from other departments if they serve the specific interests of the student in his pursuit of his major field. This can be done only with the permission of the chairman; however, it is not permitted to take less than eighteen hours in a major field under any circumstances.

POSSIBLE MAJORS
For the Bachelor of Arts degree the possible majors are: communication arts, economics, English, fine arts, geology, history, languages, mathematics, music, philosophy, political science, psychology, sociology or social work, and theological studies.

For the Bachelor of Science degree the possible majors are: biology, chemistry, computer science, geology, mathematics, home economics (the general program or the dietetics program), medical technology, and physics.

If a minor is required, it must be selected from one of the above fields. There is an exception in Home Economics where Marketing is permitted as a minor.

ACADEMIC STANDING
As a requirement for graduation, it is necessary that the grade point average be at least 2.00 in the major field, in the minor field, and in the total college work.

PRE-PROFESSIONAL COURSES
The schedule should be drawn up with a view to preparation for a particular profession which the student may have in mind. Hence it is imperative that the student consult the dean to receive the proper educational guidance.

Students interested in librarianship or archival work will need a strong major and minor, a reading knowledge of German and French, and an interest in a variety of subjects. Technically, a law school will accept any college degree with the proper cumulative point average.

For public administration and civil service, a major in a social science is desirable. This is equally true for foreign service, and here a strong aptitude in modern language is also a strong aid.

Although vocational education is not the primary objective of the Arts, they are practical because the best “job-insurance” is not a narrow training in specific skills but a broad training in general capabilities. Graduates with the B.A., for example, are now accepted in graduate schools in M.B.A. programs.

Two years of college study are required for admission to the first year of philosophy in diocesan seminaries. During these years stress should be placed upon English, the classical and modern languages.

Students contemplating the medical profession should consult the pre-medical program (Program—S11: pp. 90-91) adviser. Those interested in pharmacy, dentistry and similar programs also consult the pre-medical adviser.

TEACHER EDUCATION PROGRAM
Students planning to teach in secondary schools may elect a program of studies with a major in any academic discipline within the College of Arts and Sciences, and include sufficient courses from the School of Education, including student teaching, to qualify them for certification. For details of this program, see the School of Education section of this Bulletin. This would yield the B.A. or the B.S. degree in the discipline, in addition to the teaching certificate.
## GENERAL REQUIREMENTS FOR BACHELOR OF ARTS DEGREES

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### Junior and Senior Years

See specific programs on the following pages.

¹Under “Term,” 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
²Freshmen elect 6 hours from Hst 120, 125, 130, 135. Sophomores elect 6 hours from Hst 260, 265, 270, 275.
³Women take Phe 110-1; men not taking R.O.T.C. take Phe 101-2.
⁴This course may be deferred to the Junior year.
⁵Non-Catholic students take an elective.
⁶Incoming students wishing to continue a language begun in high school and transfer students will be required to take a placement examination in that language. The general pattern of transfer in such cases would be: after 2 years in high school of the language, begin with 201; after 4 years in high school, or even 3 years and excellent grades, begin 300 courses. Such transfer does not alter the requirement of 12 hours in at least one language, nor does it affect the requirements for a major listed in the Courses of Instruction.
⁷Women take Phe 112-3; men not taking R.O.T.C. take Phe 201-2.
# UNIVERSITY OF DAYTON

## PROGRAM—AI: BACHELOR OF ARTS WITH A MAJOR IN COMMUNICATION ARTS

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1Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
2See footnote 2, p. 59.
4Non-Catholic students take an elective.
5Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.
6Non-Catholic students take Phl 404.
## PROGRAM—A2: BACHELOR OF ARTS WITH A MAJOR IN ECONOMICS

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### Freshman Year

### Sophomore Year

| EnO   | 201-2 | Principles of Economics                     | 3-0-3    | 3-0-3    |          |
| EnG   | 221-2 | English and American Literature             | 3-0-3    | 3-0-3    |          |
| HSt²  | —    | American History electives                 | 3-0-3    | 3-0-3    |          |
| MII⁵  | 201-2 | Second Year Basic Course                   | 2-1-1    | 2-1-1    |          |
| Phl   | 207  | Philosophical Psychology                   | 3-0-3    |          |          |
| Thl⁴  | 220  | Theology of Christ                         | 3-0-3    |          |          |
| —     | —    | Modern Language course                      | 3-0-3    | 3-0-3    |          |
|       |      |                                             | 16       | 16       |          |

### Junior Year

| Eco   | 340  | Micro Economic Analysis                    | 3-0-3    |          |          |
| Eco   | 341  | Macro Economic Analysis                    | 3-0-3    |          |          |
| Eco   | 342  | Money, Banking, and Monetary Policy        | 3-0-3    |          |          |
| Phl   | 306  | Epistemology                               | 3-0-3    |          |          |
| Phl   | 402  | General Metaphysics                        | 3-0-3    |          |          |
| Psy   | 201  | Introductory Psychology                    | 3-0-3    |          |          |
| Thl⁴  | —    | Theology elective                          | 2-0-2    | 2-0-2    |          |
| —     | —    | Economics elective                         | 3-0-3    |          |          |
| —     | —    | Minor                                      | 3-0-3    | 3-0-3    |          |
|       |      |                                             | 17       | 14       | 31 - 103 |

### Senior Year

| Phl   | 303  | Cosmology                                   | 3-0-3    |          |          |
| Phl   | 403  | Natural Theology                           | 3-0-3    |          |          |
| Thl⁴  | —    | Theology elective                           | 2-0-2    |          |          |
| —     | —    | Economics elective                          | 6-0-6    | 6-0-6    |          |
| —     | —    | General elective                            | 3-0-3    |          |          |
| —     | —    | Minor                                      | 3-0-3    | 3-0-3    |          |
|       |      |                                             | 14       | 15       | 29 - 132 |

¹Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
²See footnote 2, p. 59.
³Women take Phle 110-1; men not taking R.O.T.C. take Phle 101-2.
⁴Non-Catholic students take an elective.
⁵Women take Phle 112-3; men not taking R.O.T.C. take Phle 201-2.
⁶Non-Catholic students take Phl 404.
### PROGRAM—A3: BACHELOR OF ARTS WITH A MAJOR IN ENGLISH

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#### Senior Year

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1 Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
2 Freshmen elect 6 hrs. from Hst 120, 125, 130, 135. Sophomores elect 6 hrs. from Hst 260, 265, 270, 275.
4 Non-Catholic students take an elective.
5 Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.
6 Eng 405 or 431.
7 Eng 316, 318, 428.
8 Eng 412, 413, 420, 434, 435.
9 Eng 438, 441, 442.
10 Except for Eng 490, the required courses in English could be taken in any term of the junior and senior year.
11 Eng 450, 452, 454, 456.
12 Eng 362, 423, 424, 425.
13 Non-Catholic students take PHL 404.
### PROGRAM—A4: BACHELOR OF ARTS WITH A MAJOR IN FINE ARTS

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1 Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
3 Non-Catholic students take an elective.
4 Choose from: Hst 120, 125, 130 and 135.
5 Choose from: Hst 260, 265, 270 and 275.
6 Women students take Phe 112-3; men not taking R.O.T.C. take Phe 201-2.
7 Advanced courses: Life Drawing (4 1/2 hrs.), Commercial Art (6 hrs.), Crafts (4 1/2 hrs.), Sculpture (3 hrs.), Painting (3 hrs.), electives (3 hrs.).
8 Non-Catholic students take Phe 404 and an elective in place of these 6 hrs.
## PROGRAM—A5: BACHELOR OF FINE ARTS

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1. Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
2. Non-Catholic students take an elective.
3. Elect from Hst 120, 125, 130 and 135.
4. Electives must be used toward fulfillment of major requirements within the following principal professional divisions of the department of Fine Arts: drawing, painting, sculpture, and the various areas of design (including advertising design and industrial design).
5. Elect from Hst 260, 265, 270 and 275.
6. Assignments made in consultation with instructor of student's major.
7. Non-Catholic students take Phl 404 and elective.
### PROGRAM—A6: BACHELOR OF ARTS WITH A MAJOR IN HISTORY

**Dept.**  | **No.** | **Course** | 1st Term | 2nd Term | 3rd Term
---|---|---|---|---|---
Hst | — | History electives | 6-0-6 | 6-0-6 | 6-0-6
Phl | 306 | Epistemology | 3-0-3 | 3-0-3 | 3-0-3
Phl | 402 | General Metaphysics | 4-0-4 | 3-0-3 | 3-0-3
Thl | — | Theology elective | 3-0-3 | 3-0-3 | 3-0-3
 — | — | General elective | 16 | 3-0-3 | 3-0-3
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**Freshman and Sophomore Years**
Follow general requirements (p. 59)

**Junior Year**

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1Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
2Non-Catholic students take an elective.
3May be taken in either the first or second term.
4Non-Catholic students take Phl 404.
# PROGRAM—A7: BACHELOR OF ARTS WITH A MAJOR IN LANGUAGE

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**Junior Year**

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**Senior Year**

*Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.*

*Students with a composite major arrangement may begin their second language in the fourth term, whether they continue the first language or not. A language major may minor in any other field approved in the College of Arts and Sciences, but a minor in languages is highly recommended.*

*Non-Catholic students take an elective.*

*It is recommended that students take any course, such as the history of a particular country or period, which will strengthen their grasp of the cultural background of the languages they are studying. It is possible also that in view of certain types of teaching or graduate work a student would elect special technical courses, such as psychology, statistics, etc. A good student with a background in two languages may be permitted to take as little as one term of a new language for reasons approved by the department chairman. In general, however, any additional language should be taken for at least two terms.*

*Non-Catholic students take Phl 404.*
# PROGRAM—A8: BACHELOR OF ARTS WITH A MAJOR IN MATHEMATICS

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|       |     | *Sophomore Year*                            |          |          |          |
| ENG   | 221-2 | English and American Literature            | 3-0-3   | 3-0-3   | 3-0-3   |
| Hst³  |     | American History elective                  |          |          | 3-0-3   |
| Mth²  | 201-2 | Second Year Basic Course                   | 2-1-1   | 2-1-1   |          |
| Mth   | 218  | Analytic Geometry and Calculus             | 4-0-4   |          |          |
| Mth   | 301  | Differential Equations                     |          |          | 3-0-3   |
| Phil  | 207  | Philosophical Psychology                   |          |          | 3-0-3   |
| Psy   | 201  | Introductory Psychology                     |          |          | 3-0-3   |
| Soc   | 201  | General Sociology                          |          |          | 3-0-3   |
| Spe   | 101  | Fundamentals of Effective Speaking         | 3-0-3   |          |          |
| Thl²  | 220  | Theology of Christ                         | 3-0-3   |          |          |

|       |     | *Junior Year*                               |          |          |          |
| Hst³  |     | American History elective                   | 3-0-3   |          |          |
| Mth   | 361  | Introduction to Abstract Algebra           | 3-0-3   |          |          |
| Mth   | 362  | Introduction to Linear Algebra and Matrices | 3-0-3   |          |          |
| Mth   | 411-2 | Probability and Statistics                 | 3-0-3   | 3-0-3   |          |
| Phil  | 306  | Epistemology                               | 3-0-3   |          |          |
| Phil  | 402  | General Metaphysics                         | 3-0-3   |          |          |
| Thl⁴  |     | Theology elective                          |          |          |          |

|       |     | *Senior Year*                               |          |          |          |
| Mth   |     | Mathematical elective                       | 3-0-3   |          |          |
| Mth   | 413  | Probability and Statistics                 | 3-0-3   |          |          |
| Mth   | 421-2 | Advanced Calculus                          | 3-0-3   | 3-0-3   |          |
| Phil  | 303  | Cosmology                                  | 3-0-3   |          |          |
| Phil  | 403  | Natural Theology                           | 3-0-3   |          |          |
| Thl⁴  |     | Theology elective                          | 2-0-2   | 2-0-2   |          |

1Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
2See footnote 2, p. 59.
4Non-Catholic students take an elective.
5Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.
6Non-Catholic students take Phil 404.
# PROGRAM—A9: BACHELOR OF ARTS WITH A MAJOR IN MUSIC

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| **Sophomore Year** |
| ENG   | 221  | English Literature                 | 3-0-3    |          |          |
| MIL³  | 201-2| Second Year Basic Course           | 2-1-1    |          |          |
| MUS   | 105  | Music Appreciation                 | 2-0-2    |          |          |
| MUS   | 251  | Second Year Theory                 | 5-0-4    |          |          |
| MUS   | 262  | Musical Form                        | 3-0-2    |          |          |
| MUS³  | —    | Applied music                       | 2-0-2    |          |          |
| PHL   | 207  | Philosophical Psychology           | 3-0-3    |          |          |
| SPE   | 101  | Fundamentals of Effective Speaking  | 3-0-3    |          |          |
| THL³  | 220  | Theology of Christ                 | 3-0-3    |          |          |
|       | —    | Science course                      | 3-3-4    | 3-3-4    |          |

| **Junior Year** |
| HST³  | —    | American History electives         | 3-0-3    | 3-0-3    |          |
| MUS   | 301-2| History of Music                   | 3-0-3    | 3-0-3    |          |
| MUS³  | —    | Applied music                       | 2-0-2    | 2-0-2    |          |
| PHL   | 306  | Epistemology                        | 3-0-3    |          |          |
| PHL   | 402  | General Metaphysics                | 3-0-3    |          |          |
| PSY   | 201  | Introductory Psychology             | 3-0-3    |          |          |
| THL³  | —    | Theology elective                   | 3-0-3    |          |          |
|       | —    | Minor                               | 3-0-3    | 3-0-3    |          |

| **Senior Year** |
| MUS³  | —    | Music electives                     | 5-0-5    | 5-0-5    | 3-0-3    |
| PHL   | 303  | Cosmology                            |          |          |          |
| PHL³  | 403  | Natural Theology                    | 3-0-3    |          |          |
| THL³  | —    | Theology elective                    | 3-0-3    |          |          |
|       | —    | General electives                   | 3-0-3    | 6-0-6    |          |
|       | —    | Minor                               | 3-0-3    | 3-0-3    |          |

¹ Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
² See footnote 2, p. 59.
⁴ Non-Catholic students take an elective.
⁵ Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.
⁶ Piano, voice, organ, band or orchestra instrument.
⁷ Select from: Mus 922, 341, 303, 315, 300-400 courses in theory or composition, or applied music.
⁸ Non-Catholic students take Phl 404.
### PROGRAM—A10: BACHELOR OF MUSIC

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1. Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
3. Students majoring in theory, violin, voice, or orchestra or band instrument will be required to use piano or organ as a minor or demonstrate ability to play the piano at a level satisfactory to the department. Applied music majors will need to take a minimum of 4 credit hours in their major during 3rd terms. Voice majors may be required to take modern languages.
4. Non-Catholic students take an elective.
6. Electives must be used toward fulfillment of major and minor requirements in music. Additional hours for remaining electives may be taken in applied music or theory courses, or Mus 303, 315, 322, 325, 326, 327, 328, 335-6, 421, 422, 451-2.
7. Non-Catholic students take Phil 403.
8. Non-Catholic students take Phil 404.
PROGRAM—AII: BACHELOR OF ARTS WITH A MAJOR IN PHILOSOPHY

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**Freshman and Sophomore Years**
Follow general requirements (p. 59)

**Junior Year**

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**Senior Year**

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\(^1\)Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.

\(^2\)Generally selected from 300-400 courses.
### PROGRAM—A12: BACHELOR OF ARTS WITH A MAJOR IN POLITICAL SCIENCE

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\(^1\)Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 5 hrs. credit.

\(^a\)Women take EdP 110-1; men not taking R.O.T.C. take EdP 101-2.

\(^a\)Students who are not Catholic take an elective.

\(^a\)Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.

\(^a\)Pre-law students are recommended to take Pol 301.

\(^a\)Students who are not Catholic take Phl 404.

\(^a\)Pre-law students are recommended to take Acc 207-208.

\(^a\)See footnote 2, p. 59.
PROGRAM—A13: BACHELOR OF SOCIAL SCIENCE WITH SPECIALIZATION IN POLICE ADMINISTRATION

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**Freshman Year**

**Sophomore Year**

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1. Students who are not Catholic take electives.
PROGRAM—A14: BACHELOR OF ARTS WITH A MAJOR IN PSYCHOLOGY

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¹Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
²See footnote 2, p. 59.
⁴Non-Catholic students take an elective.
⁵French or German. Exceptions permitted through department chairman.
⁶Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.
⁷Non-Catholic students take Phl 404.
## PROGRAM—A-15: BACHELOR OF ARTS WITH A MAJOR IN SOCIOLOGY, SOCIAL WORK OR ANTHROPOLOGY

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**Total: 30 - 104**

1. Under "Term," 3.0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
2. See footnote 2, p. 59.
4. Non-Catholic students take an elective.
6. Required of Sociology Majors.
8. Required of Anthropology Majors.
10. Non-Catholic students take PHL 404.
# PROGRAM—A16: BACHELOR OF ARTS WITH A MAJOR IN THEOLOGICAL STUDIES

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¹Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
²See footnote 2, p. 59.
⁴Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.
### PROGRAM—A17: BACHELOR OF ARTS (Carthagena)

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<td>History of Christian Antiquity</td>
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1. The freshman and sophomore years of this program are taken at St. Joseph's College, Indiana; the junior and senior years at St. Charles Seminary, Carthagena, Ohio. For a description of these courses, consult the St. Charles Seminary catalog.

2. Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.

3. May substitute Hum 27 Art: History and Appreciation.


5. May substitute Mth 5 Algebraic Structure and Number System.
### Program—A-18: Associate in Police Administration

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**Second Year**

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¹Students who are not Catholic take electives.
# PROGRAM—SI: BACHELOR OF SCIENCE WITH A MAJOR IN BIOLOGY

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**Freshman Year**

**Sophomore Year**

|       |      |                                             | 3-6-5     | 3-3-4    |          |
|       |      |                                             | 3-3-4     | 3-3-4    | 3-3-4    |
|       |      |                                             | 3-0-3     | 3-0-3    | 3-0-3    |
|       |      |                                             | 3-0-3     | 3-0-3    | 3-0-3    |
|       |      |                                             | 16        | 18       |          |
|       |      |                                             | 34        | 70       |          |
|       |      |                                             | 34        | 104      |          |
|       |      |                                             | 32        | 134      | 34       |

**Junior Year**

|       |      |                                             | 3-3-4     |          | 3-3-4    |
|       |      |                                             | 3-2-4     | 3-2-4    |          |
|       |      |                                             | 3-3-4     |          | 3-0-3    |
|       |      |                                             | 2-0-2     | 3-0-3    | 3-0-3    |
|       |      |                                             | 17        | 17       |          |
|       |      |                                             | 34        | 104      |          |

**Senior Year**

|       |      |                                             | 1-0-1     | 3-3-4    | 3-3-4    |
|       |      |                                             | 2-0-2     | 2-0-2    |          |
|       |      |                                             | 6-0-6     | 6-0-6    | 3-0-3    |
|       |      |                                             | 16        | 16       |          |

$^1$Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.


$^3$May substitute Mth 117.

$^4$Mth 122, 210, or 216.

$^5$Non-Catholic students take an elective.

$^6$May substitute Bio 220 with the permission of the department chairman. In this case, a general elective may also be taken during the term.

$^7$Any 300-400 course in biology. With permission of the chairman, certain mathematics, chemistry, or physics courses may be substituted.

$^8$Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.

$^9$Choose General electives from: Psy, Eco, Hst, Eng, Soc, etc.

$^{10}$Chm 201, 302, or 420.

$^{11}$Non-Catholic students take Phl 404.

$^{12}$Non-Catholic students take Phl 403.
**COLLEGE OF ARTS AND SCIENCES**

**PROGRAM—S2: BACHELOR OF SCIENCE WITH A MAJOR IN CHEMISTRY**

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^1 Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.


^3 Non-Catholic students take an elective.

^4 Chm 313-4 may be substituted with permission of the department chairman.

^5 Students with 2 or more years of high school German take Ger 201; all others take Ger 101.

^6 Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.

^7 Non-Catholic students take Phl 404.

^8 Chemistry electives: Chm 404, 412, 416, 420, 499.

^9 Non-Catholic students take Phl 403.

^10 General electives: Soc 201, 202, Pol 201, Acc 203, 310, Bus 315, Mth 301. One course in advanced mathematics or advanced physics may be taken. Other electives may be taken with the approval of the department chairman.
### PROGRAM—S3: BACHELOR OF SCIENCE WITH A MAJOR IN COMPUTER SCIENCE

<table>
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**Freshman Year**

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**Sophomore Year**

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**Junior Year**

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**Senior Year**

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1. Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
3. Students who are not Catholic take electives.
4. Students who are not Catholic take Phl 403-404.
## PROGRAM—S4: BACHELOR OF SCIENCE WITH A MAJOR IN GEOLOGY

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¹Under “Term,” 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
³May substitute Mth 121-2 with permission of department chairman.
⁴Non-Catholic students take an elective.
⁵Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.
⁶May substitute Phy 206-7 if Mth 217-8 is taken in sequence.
⁷Non-Catholic students take Phil 403.
⁸Choose from courses in chemistry, mathematics, physics, biology, geology, or engineering.
⁹Non-Catholic students take Phil 404.
HOME ECONOMICS
The department provides two special curricula:
1. Dietetics and Institutional Management;
2. General Home Economics.

Students following these curricula may pursue a career in homemaking, interior decorating, the creating and construction of clothing; in the management of cafeterias, dormitories, and tearooms; as demonstrators for commercial manufacturing concerns; at dietetics in hospitals and other institutions; in graduate work and in research projects.

The curriculum for dietetics and institutional management meets the requirements of the American Dietetics Association.

PROGRAM-S5: BACHELOR OF SCIENCE WITH A MAJOR IN HOME ECONOMICS (General Home Economics)

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Freshman Year: 17   17
**Sophomore Year**

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**Senior Year**

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¹Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
²May substitute Chm 123-4 or Chm 110-200.
³Foods I & II and Clothing I & II may be interchanged.
⁴Student may elect any lower division Hst courses.
⁵Non-Catholic students take an elective.
⁶Non-Catholic students take Phl 404.
⁷Can be taken in English, psychology, retailing, history, or education. Students choosing education must take Edu 208, 351, 419, and Hec 329, 405, and Chm 110-200 or 123-4. Hec courses must total 51 hours.
⁸Non-Catholic students take Phl 403.
# PROGRAM—S6: BACHELOR OF SCIENCE WITH A MAJOR IN HOME ECONOMICS (Dietetic Internship)

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1 Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
2 May substitute Chm 110-200.
3 Non-Catholic students take an elective.
4 May substitute Chm 313-4; when Chm 200 was taken in freshman year, an elective must be taken.
5 Non-Catholic students take Phl 404.
6 Take principles of teaching course: Edu 198, 208, Hec 405.
7 Non-Catholic students take Phl 403.
PROGRAM—S7: BACHELOR OF SCIENCE WITH A MAJOR IN MATHEMATICS OR MATHEMATICAL STATISTICS

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¹ Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
³ Non-Catholic students take an elective.
⁴ Students with 2 or more years of high school German take Ger 201; all others take Ger 101.
⁵ Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.
⁶ May substitute Mth 411-2.
⁷ Students minoring in one of the sciences are advised to choose their electives outside the fields of science.
⁸ Non-Catholic students take Phl 404.
⁹ Non-Catholic students take Phl 403.
¹⁰ Replace by Mth 421-422 if not taken in Junior year.
MEDICAL TECHNOLOGY
A twelve or thirteen month course in medical technology is offered by the Diagnostic Laboratories of St. Elizabeth Hospital, Good Samaritan Hospital, and Miami Valley Hospital. Affiliation with the University of Dayton permits a student to obtain the degree of Bachelor of Science in Medical Technology if the University's requirements are fulfilled. These schools are accredited by the Registry of Medical Technologists of the American Society of Clinical Pathologists through the Council on Medical Education and Hospitals of the American Medical Association, and qualify a student to take the examination given by the Registry of Medical Technologists.

The student receives practical and theoretical experience in the various branches of the clinical laboratory, after which he is qualified for positions in hospitals, clinics, research laboratories, and physicians' offices.

METHODS OF INSTRUCTION
After a preliminary concentrated introduction to medical technology, the student participates in the activities of the Diagnostic Laboratories, spending a specific time in each department. Instruction is under the supervision of the pathologist and his staff. Regular assignments in recognized textbooks and laboratory periodicals are given. Conferences and examinations are held throughout the year. Following a review period at the end of the prescribed course, a final examination, patterned after that of the Registry of Medical Technologists, is given.

ADMISSION REQUIREMENTS
In planning for the hospital experience, the student is required to arrange for an interview with the pathologist at the approved School of Medical Technology at the hospital. He should also plan to visit each hospital for the purpose of seeing the facilities of the diagnostic laboratories. His choice of school must be stated in writing to both the pathologist at the school of medical technology, and the advisor of the medical technology students at the University. This must be done no later than February 1, if he intends to begin training at the hospital in June. The University advisor will submit letters of recommendation to each school of medical technology in behalf of the student seeking the interview.
SENIOR YEAR SCHOLARSHIP
A full tuition scholarship is made available for the senior year. This includes room and board for the women students; it may not be possible to secure housing for male students. Students provide their own uniforms and textbooks.

LENGTH OF CLINICAL COURSE
The course of instruction covers a period of fifty-two to fifty-six consecutive weeks. If vacation period or leave of absence is granted, additional equivalent time must be made up in the school of medical technology. The hours of duty are from 8 a.m. to 5 p.m., five days a week. Special assignments for Sunday and holiday work are given with time off during the week. There is no night call for students.

Textbook assignments and extracurricular reading and study shall be done outside the regular hours. Written and oral examinations are held at regular intervals throughout the course.

GRADUATION AND REGISTRATION
After demonstrating a theoretical and practical proficiency in clinical laboratory procedures, the student is given a certificate by the hospital, and becomes eligible for the national examination for certification by the Registry of Medical Technology.

Students who are registered at the University of Dayton are eligible for the degree of Bachelor of Science in Medical Technology.

Examinations for Registration and the Certificate of M.T. (Medical Technologist) are given in July and November by the Registry of Medical Technologists in various cities. These are written examinations.
## PROGRAM—S8: BACHELOR OF SCIENCE WITH A MAJOR IN MEDICAL TECHNOLOGY

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1Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
3Non-Catholic students take an elective.
4Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.
5Non-Catholic students take Phl 404.
6Non-Catholic students take Phl 403.
7Clinical training in hospital laboratory (Good Samaritan, St. Elizabeth, or Miami Valley).
8Courses not necessarily taken in terms indicated.
9Miami Valley hospital only.
## PROGRAM—S10: BACHELOR OF SCIENCE WITH A MAJOR IN PHYSICS

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¹Under “Term,” 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
³Non-Catholic students take an elective.
⁴Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.
⁵Non-Catholic students take Phi 404.
⁶Upper level courses in physics, mathematics, or other approved subjects.
⁷Non-Catholic students take Phi 403.
PREMEDICAL AND PREDENTAL

This program meets the admission requirements of all approved medical schools as determined by the Council of Medical Education for the American Medical Association. The four year course leading to the degree, Bachelor of Science, is recommended whenever possible. In addition to basic science requirements, it should include a broad and adequate study of the humanities and social studies. A reading knowledge of German (or French, with approval) is also desired by medical schools. One year of college work in addition to high school units in the same language may be sufficient.

Recommendation of a student by his premedical school is of considerable importance for admission to medical or dental school. Recommendation is based on more than academic standing. Character, professional development, and personality qualities are also weighed. The membership of the board on premedical recommendations is as follows: Dr. Carl I. Michaelis, Chairman, Dr. Cletus C. Chudd, S.M., Peter J. Faso, Mariano Crivello, Russell A. Joly, S.M., Dr. George B. Noland, Dr. Joseph A. Pappalardo, and Gertrude D. Shay.

Both the Medical College Admissions Test and the American Dental Aptitude Test are administered on this campus each year in the fall and spring semesters. Students are required by the graduate school to take this test, usually in the spring of their junior year. Applications for registration may be secured from the premedical advisor.

The increasingly high admission standard for medical and dental schools makes it desirable that the student in the premedical program give full time to study, and that he consider part time work to gain some financial advantage only as a last resort. Many medical schools do not admit college graduates with less than a 3.00 cumulative average.

PROGRAM—S11: BACHELOR OF SCIENCE FOR PREMEDICAL AND PREDENTAL STUDENTS

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1. Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
2. Students with 2 or more years of high school German take Ger 201; all others take Ger 101.
4. Non-Catholic students take an elective.
5. Recommended: Bio 303, 309, 312, 325, 411. Chm 302 is strongly recommended for premedical students.
6. Non-Catholic students take Phl 404.
7. Non-Catholic students take Phl 403.
8. Recommended: Eng 222, Pol 201, language, sociology, and psychology courses.
The School of Business Administration operates in accord with the educational philosophy and purposes of the University. It believes that Christian principles of thought and action are essential to the complete formation of a business man. Through instruction and related activities it aims to develop in the student a moral excellence and firmness along with a degree of professional competence. It proposes to enhance the student's awareness of his obligation to himself, his family, society, and God—an awareness that is fundamental to his total development as a business man.

The School of Business Administration particularly seeks to develop that knowledge of business policies, problems and procedures which will enable the student to take a responsible place in the business and economic environment within which he must earn a livelihood.

In order to insure the breadth of background demanded of successful business and community leaders, the student must complete work in humanities and general studies as well as in professional business courses. This preparation is included in each of the programs offered.

DEGREE REQUIREMENTS

The School of Business Administration confers the degree of Bachelor of Science in Business Administration upon satisfactory completion of the following prescribed requirements:

1. Each candidate must complete successfully the Freshman-Sophomore Business Administration program, which is designed to give the student a broad and liberal education in preparation for more specialized training in Business Administration and Economics.

2. Each candidate must earn a cumulative grade point average of at least 2.00 in:
   a) The core courses required of all students enrolled in the School of Business Administration;
   b) The major field of concentration elected by the student.

3. Each candidate must complete a minimum of forty-five credits in 300-400 level courses in the School of Business Administration consisting of the following:
   a) Twenty-seven credits in the core courses required of all students enrolled in the Upper Division in the School of Business Administration;
   b) Eighteen credits (or more) in one of the Upper Division areas of concentration offered in the School of Business Administration.

4. Each candidate must earn a grade of at least "C" in Bus 423, Business Policies and Management.

5. Each candidate must earn a minimum of one hundred and thirty-three to one hundred and thirty-nine hours of credit and at least twice that number of quality points.

6. Each candidate must earn twelve credits of electives in the upper division. These electives may be taken outside the School of Business Administration.
The responsibility of meeting the degree requirements in Business Administration rests with the student and not with the faculty and staff of the School of Business Administration. The student should be thoroughly familiar with the course requirements and should keep his own record of courses completed and credit hours applicable to degree requirements.

FRESHMAN-SOPHOMORE BUSINESS ADMINISTRATION PROGRAM

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³Under “Term,” 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.

²Courses listed in italics may be taken in either the first or second term as directed by the program advisor.


⁴Non-Catholic students consult General Curriculum Requirements.

⁵Choose one of these courses: Bio 113, Chm 110, Geo 110, Phy 151, Phy 105.

⁶Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.

⁷Choose one of these courses: Hst 252, Pol 201, Soc 201, Spe 201.

UPPER DIVISION
Specialization in the School of Business Administration occurs in the Junior and Senior years.

It is possible to major in any one of the following areas: accounting, general business management, marketing, industrial management, personnel management, or economics.

Each curriculum is organized to include six to twelve credits of electives in the Junior and Senior years. Since the aim of the School of Business Administration is to provide breadth of education, these credits may be taken outside of the School of
Business Administration. The electives may be concentrated in one area, or, if the student desires, they may be taken in more than one area.

ACCOUNTING
The profession of accountancy concerns itself with recording, classifying, summarizing, and analyzing financial data. The professional accountant prepares the reports and statements upon which business management depends for effective control.

In addition to taking the required basic courses, the business student who majors in accounting follows a sequence of seven advanced courses. The accounting major desiring minimum professional preparation should earn additional credit in at least two of the accounting elective courses.

Successful completion of the program outlined may lead to a career in public accounting, to employment in financial departments of business enterprises, or to service in one of the many agencies of the federal, state, or local government.

PROGRAM—B1: BACHELOR OF SCIENCE WITH A MAJOR IN ACCOUNTING

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Junior Year

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Senior Year

Sufficient electives must be taken to meet the minimum number of credit hours required for graduation. Consult program advisor. Students not eligible to take more than a 17 credit hr. load must take these electives during the split third term.

Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.

Courses listed in italics may be taken in either the first or second term as directed by the program advisor.

Non-Catholic students consult General Curriculum Requirements.
BUSINESS MANAGEMENT

The work in business management provides training in general business management, industrial management, or personnel management. General business management is designed to give a rounded viewpoint of business problems. The other two majors are specific and constitute a particular approach to a specialized business area.

The following outline of courses constitutes the upper level work required for a Bachelor of Science with a major in any one of the three programs.

**PROGRAM—B2: BACHELOR OF SCIENCE WITH A MAJOR IN GENERAL BUSINESS MANAGEMENT**

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1Sufficient electives must be taken to meet the minimum number of credit hours required for graduation. Consult program advisor. Students not eligible to take more than a 17 credit hr. load must take these electives during the split third term.

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3Courses listed in italics may be taken in either the first or second term as directed by the program advisor.

4Non-Catholic students consult General Curriculum Requirements.

5May substitute Bus 403.
## PROGRAM—B3: BACHELOR OF SCIENCE WITH A MAJOR IN INDUSTRIAL MANAGEMENT

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### Senior Year

A minor in psychology or sociology is particularly recommended for those majoring in industrial management. Those taking a minor in psychology may, with permission, substitute Psy 302, Elementary Statistics, for Bus 313, Business Statistics. Students taking a minor in psychology or sociology should consult with the Chairman of the Department of Psychology or Sociology about the requirements for a minor. The student, however, should understand that he is free to elect additional hours in any other college or department of the University for which he has the prerequisites.
PROGRAM—B4: BACHELOR OF SCIENCE WITH A MAJOR IN
PERSONNEL MANAGEMENT

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**Senior Year**

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4Non-Catholic students consult General Curriculum Requirements.

A minor in psychology or sociology is particularly recommended for those majoring in personnel management. Those taking a minor in psychology may substitute Psy 302, Elementary Statistics, for Bus 313, Business Statistics. Students taking a minor in psychology or sociology should consult with the Chairman of the Department of Psychology or Sociology about the requirements for a minor. The student, however, should understand that he is free to elect twelve hours in any other college or department of the University for which he has the prerequisites.

MARKETING

The program in Marketing is designed to develop competence in students in all or some part of the marketing process. Although the student often enters with interest in a single
phase of marketing such as: selling, advertising, pricing, product planning, physical distribution, purchasing, market research, wholesaling, or retailing, the emphasis in the curriculum is on the marketing management concept. Thus, any specialized activity is studied as a part of a total marketing process which in turn must be integrated with the objectives of a business firm, the functioning of an economic system and the constraints of society.

The objective is to add limited specialization to a base made up of the general education required for graduation and a core of business administration courses required of all business students.

Within the marketing specialization the purpose is to:

1. Develop a student of marketing who has the tools and groundwork for continued study after graduation. Applications of the social sciences and quantitative techniques are stressed. Communications skills are emphasized. Understanding of institutions and nomenclature is essential.

2. Develop a practitioner of marketing with interests, attitudes, and sufficient understanding to be potentially productive at a responsible level of decision making.

3. Provide flexibility through choice of courses for marketing majors and provide some breadth of choice of marketing courses as electives for non-marketing majors both from within and without the School of Business Administration.

The Department of Marketing is represented through institutional or faculty memberships in the American Academy of Advertising, the American Collegiate Retailing Association, and the American Marketing Association. The courses and programs of the department are in accord with the recommendations of these professional groups.

Some of the options within the field of Marketing which have proved to be popular are:

**Advertising**

Students interested in advertising as a concentrated area of study take the following sequence of courses: Mkt 420 Marketing Communications, Mkt 421 Advertising, Mkt 430 Marketing Research.

A major in marketing requires three additional marketing courses selected in consultation with the chairman of the department.
Marketing Research
Students interested in marketing research as a concentrated area of study take the following sequence of courses: Mkt 315 Retail Merchandising, Mkt 405 Consumer Behavior, Mkt 430 Marketing Research.
A major in marketing requires three additional marketing courses selected in consultation with the chairman of the department.

Marketing Management
Students interested in marketing management as a concentrated area of study take the following sequence of courses: Mkt 315 Retail Merchandising, Mkt 335 Advanced Marketing, Mkt 430 Marketing Research.
A major in marketing requires three additional marketing courses selected in consultation with the chairman of the department.

Retailing
Students interested in retailing as a concentrated area of study take the following sequence of courses: Mkt 316 Retail Organization and Operation, Mkt 318 Retail Advertising and Sales Promotion, Mkt 417 Retail Buying and Merchandising.
A major in marketing requires three additional marketing courses selected in consultation with the chairman of the department.

Salesmanship
Students interested in salesmanship as a concentrated area of study take the following sequence of courses: Mkt 310 Salesmanship, Mkt 405 Consumer Behavior, Mkt 411 Sales Management.
A major in marketing requires three additional marketing courses selected in consultation with the chairman of the department.
PROGRAM—B5: BACHELOR OF SCIENCE WITH A MAJOR IN MARKETING

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**Junior Year**

**Senior Year**

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<tr>
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<tr>
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**Sufficient electives must be taken to meet the minimum number of credit hours required for graduation. Consult program advisor. Students not eligible to take more than a 17 credit hr. load must take these electives during the split third term.**

**Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.**

**Courses listed in italics may be taken in either the first or second term as directed by the program advisor.**

**After consulting advisor, choose two marketing courses.**

**May substitute Mkt 316.**

**Non-Catholic students consult General Curriculum Requirements.**

**After consulting advisor, choose three marketing courses.**

**ECONOMICS**

The Department of Economics offers courses in the core business curriculum and in a major concentration. Economics 201 and 202 serve as the foundation for all upper level business subjects including those taken by economics majors. Within the core business curriculum, the Department of Economics offers Macro Economic Analysis (Eco 341) and Money, Banking, and Monetary Policy (Eco 342). In addition, Micro Economic Analysis (Eco 340) is required of all economics majors.

The major program in economics is designed for those students seeking careers as economists in education, government, or business, or who wish to prepare for other specialized areas such as banking, finance, investment security analysis, or labor relations. To accomplish this objective, the Department of Economics emphasizes in its instruction the development and functioning of the economies of the United States and other...
countries. The student thus is equipped with the tools for the systematic analysis of the economic problems of the individual firm, the industry, the nation, and the world within their social, political, and legal contexts.

For admission to the major, a student must have completed Economics 201 and 202. To complete the major, fifteen hours of economics courses, in addition to Economics 340, 341, and 342, are required of the Business Administration student. After consultation with the Chairman of the Department, the major may select these fifteen hours to fit his own special needs or interests.

Candidates for the Bachelor of Arts degree who desire to major in economics will follow the program of the College of Arts and Science.

PROGRAM—B6: BACHELOR OF SCIENCE WITH A MAJOR IN ECONOMICS

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Senior Year

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Sufficient electives must be taken to meet the minimum number of credit hours required for graduation. Consult program advisor. Students not eligible to take more than a 17 credit hr. load must take these electives during the split third term.

Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.

Courses listed in italics may be taken in either the first or second term as directed by the program advisor.

Non-Catholic students consult General Curriculum Requirements.

ASSOCIATE DEGREE IN BUSINESS ADMINISTRATION

The Associate Degree in the Business Administration program specializing in secretarial studies has been designed especially for those who plan to attend college for only two years.
University-trained secretaries with broad educational backgrounds in economics, history, philosophy, and social studies are urgently needed in business. This cultural background, combined with competency in typewriting, shorthand, accounting, business machines, and office procedures, will prepare graduates for responsible positions in commerce and industry.

Although the Associate Degree is, in essence, a terminal degree, students may elect to continue work for the Bachelor of Science in Business Administration or the Bachelor of Science in Education.

PROGRAM—B7: ASSOCIATE DEGREE IN BUSINESS ADMINISTRATION

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1 Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
2 Courses listed in italics may be taken in either the first or second term as directed by the program advisor.
3 Non-Catholic students take Phl 207.
4 Non-Catholic students take Phl 402.
5 Non-Catholic students take Phl 404.

EVENING PROGRAMS IN BUSINESS ADMINISTRATION

The University of Dayton, through its Evening Division, offers an Associate Degree in Business Administration, specializing in Accounting, General Business Management, or Personnel Management. Further information about these programs can be obtained from the office of the Director of the Evening Division.
Conformable to the University's purposes, the School of Education endeavors to foster both (1) the development of those general capacities of the students which flow directly from his human nature and (2) the development of those particular capacities which enable him to become an effective practitioner in the field of professional education.

The general capacities of the student are developed through a broad and sound education of a general nature. It endeavors to acquaint the student with the major areas of knowledge, integrated through the disciplines of philosophy and theology, and provides planned opportunities for personal, social, and ethical development.

The particularized concern of the School is the professional preparation of teachers for the elementary and secondary schools. Provisions for professional competence are made: (1) through comprehensive study of specialized teaching fields, (2) through thorough study of the professional foundations which are common to all teaching, and (3) through specialized study of the principles underlying a particular type and level of teaching.

DEGREE REQUIREMENTS
Specific four-year course requirements for kindergarten-primary, elementary, secondary, and special (music, art, physical education, home economics, speech) certification are outlined in the following pages.

Toward the close of the Freshman year each student is required to file formal application for admission to the Sophomore class. At this point his work is reviewed by a faculty committee to determine the extent to which the applicant’s personal traits, academic work, etc., point toward likelihood of success as a professional teacher.

As a rule the School of Education will not recommend students for graduation unless these students can also qualify for teacher certification.

The responsibility for meeting the University and State requirements rests with the student. The student is cautioned to study the course requirements and to keep accurate count of the credit hours applicable to graduation. Students planning to teach in states other than Ohio should fulfill University requirements plus those of the State in which the candidate is destined to teach. (Consult the book, Requirements for Certification by Woellner, University of Chicago Press; this book is constantly available both in the Education Office, Room C-104, and in the Curriculum Materials Center, Room C-114.)
University requirements for graduation and for teacher certification are the following:

1. Evidence of such general scholarship, personal and moral qualities, as give promise of professional success.

2. Evidence of participation in a variety of planned field experiences essential to the development of the resourcefulness needed by teachers. (For information regarding minimum requirements in observation of teaching and other field experiences consult the Coordinator of Student Field Experiences, Room C-206, or request copy of instruction sheet from Education Office, Room C-104.)

3. Earn one hundred and thirty-two semester credit hours in approved courses.

4. Meet the following letter-grade requirements:
   a) Earn a grade-point average of 2.00 ("C" average) or better.
   b) Earn a grade-point average of 2.500 ("C+" average) or better in professional education courses and in one's specialized teaching field.

5. Complete minimum requirements in psychology and professional education courses in accordance with the following pattern:

<table>
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<th>Credit Hours</th>
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<tbody>
<tr>
<td><strong>A. Nature of the Learner</strong></td>
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<td><strong>B. Educational Psychology I</strong></td>
</tr>
<tr>
<td><strong>C. Educational Psychology II</strong></td>
</tr>
<tr>
<td><strong>D. The Elementary School: Purposes and Practices</strong></td>
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<tr>
<td><strong>The Secondary School: Purposes and Practices</strong></td>
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<tr>
<td><strong>E. Special Methods</strong></td>
</tr>
<tr>
<td><strong>F. Student Teaching</strong></td>
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<tr>
<td><strong>G. Philosophy of Education</strong></td>
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^Combination of Psy 201 Introductory Psychology and Phl 207 may be substituted.
^Students in Elementary Education follow special courses covering (a) Reading and Language Arts, (b) Arithmetic. Students in Kindergarten-Primary Education follow special courses in theory, methods, and materials on kindergarten-primary level.

The School of Education does not accept credits for professional education courses earned through correspondence.

6. Complete the theology-philosophy sequence as follows:
   Catholic students, twenty-four semester hours: Thl 152, 220, and six (6) semester hours of theology electives; Phl 105, Phl 306, Phl 402, and EdF 419.
   Other students, twenty-one semester hours: EdF 109, Phl 103, 306, 402, 403, 404, and EdF 419.

   Students who have completed EdF 198 will be permitted to enter 300-400 philosophy courses without having taken Phl 207 Philosophical Psychology as one of the prerequisites. Students who succeed in having EdF 198 waived by reason of having had General Psychology or the equivalent should take Phl 207 instead of Phl 402.

7. Pass a comprehensive examination involving the following: General Education, Professional Education, and the principal teaching field. The Teacher Education Examination Program (TEEP) will be administered. (Consult the Education Office for dates.)

COUNSELING

Each freshman education student chooses a counselor to whom he reports at least twice a term for an interview. Each upperclassman reports for proper guidance at least once
every semester to his dean or to the chairman of the department in which he is majoring.

Upperclassmen are urged to visit the Education Office to examine composite ratings of personal traits as given by their instructors. The student by comparing these composite ratings against his self-rating will be enabled to identify traits which may warrant concentration of efforts for self-improvement.

OFFICE OF COORDINATOR OF FIELD EXPERIENCES
This office functions to facilitate the gaining of planned field experiences by students prior to student teaching. Referrals to the office are made by the respective instructors. The office makes appointments with the schools and other agencies, keeps records of all student field experiences, counsels students regarding proper procedures, promotes desirable balance between observation and direct participation.

STUDENT TEACHING
This consists of actual classroom teaching under competent supervision. During the semester of student teaching, the student is not permitted to carry more than six semester hours of additional course work. These additional hours are ordinarily scheduled outside the normal school day in order to keep intact the student teaching experience for the full school day. The student should arrange his financial obligations so that he need not continue with part-time employment during this semester.
In order to be admitted to student teaching, the faculty of the School of Education screens each candidate on the basis of the following factors: (1) skill in communication arts, (2) quality point average in course work, (3) physical and emotional fitness, (4) desirable personal and moral traits, (5) completion of the prerequisite courses.

Prerequisites for candidacy for student teaching are: (1) official enrollment in a teacher education program at the University, (2) prospective completion of minimum residence requirement of thirty semester hours inclusive of student teaching, (3) completion of required clock hours in observation of teaching (consult sheet indicating "Total Hours of Observation for Each Student Classification" issued by the Education Office), (4) formal application for processing by screening committee; application must be submitted a term in advance of student teaching. (Application blanks may be secured from the Education Office, Room C-104.)

The campus supervisors have direct charge of the student teaching experience.

Once a week throughout the term a student teaching seminar is held on campus.

The time allotted to student teaching is an entire term involving full-day sessions. However, if a student teacher should evidence sufficient development before the termination of the semester, the campus supervisor may dismiss the student ahead of time.

Students in Secondary Education may register for up to a maximum of nine semester credit hours. Students in Elementary Education may register for up to a maximum of twelve semester hours of credit; this involves a minimum of fifteen full weeks, usually in two different schools or grade levels.

Once a student has been approved and placed for student teaching, he may not withdraw from the program unless approved by the Director of Student Teaching. A student who withdraws without this approval forfeits future placement in student teaching.

Student Teaching during the summer term is restricted to candidates who have had actual teaching experience.

TEACHER PLACEMENT

Students who qualify for teacher certification in the School of Education are helped to secure teaching positions through the School's placement service located in Room C-214. This requires cooperation from the candidate in filling out the necessary papers and in submitting names for references. Interviews with prospective employers are conducted in the University Guidance Center and are announced in advance in the Weekly Calendar.

TEACHER CERTIFICATION

The School of Education is on the approved list of the State Department of Education and of the National Council for Accreditation of Teacher Education. NCATE accreditation is being used increasingly as the major basis for reciprocity between states in teacher certification. To date the following states grant regular certificates under practically all circumstances to teachers who have completed approved programs in institutions accredited by NCATE: Alabama, Arizona, Colorado, Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maine, Maryland, Mississippi, Missouri, Nebraska, North Carolina, North Dakota, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Dakota, Tennessee, Texas, Utah, Vermont, Washington, West Virginia, and Wyoming.
In addition to preparing properly certified kindergarten-primary, elementary, and high school teachers, the School also enables students to qualify for special certification in art, physical education, home economics, music, and speech.

A curriculum in Home Economics Education has been established through the vocational division of the State of Ohio, Department of Education. Graduates of this curriculum are certified to teach vocational home economics as well as non-vocational.

CORRECTIVE THERAPY CERTIFICATION
Through the affiliation of the Veterans Administration Center's Corrective Therapy Clinical Training Program (Brown Hospital, Dayton) students who follow the School of Education's program in health and physical education have the opportunity to qualify for national certification as Corrective Therapists by satisfactorily completing 250 clock hours of directed corrective therapy clinical training and by passing the examination of the American Medical Association. This program as designed for University of Dayton students has the certified approval of the Veterans Administration Central Office, Washington, D. C.

GRADUATE PROGRAMS
The School of Education offers five graduate programs for in-service teachers leading to the Master of Science in Education degree; they are designed to prepare master high school teachers, master elementary teachers, school counselors, school psychologists, and school administrators. (For details on the graduate programs request a copy of The Graduate Catalog Issue.)
### PROGRAM—E1: BACHELOR OF SCIENCE IN ELEMENTARY EDUCATION

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### Junior Year

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<td>Reading and Language Arts</td>
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<tr>
<td>EdE* 350</td>
<td><em>The Elementary School</em></td>
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<tr>
<td>EdE 403</td>
<td>Mathematics in the Elementary School</td>
</tr>
<tr>
<td>Eng 360</td>
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<td>Geography</td>
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<tr>
<td>Mth 142</td>
<td>Math Concepts II</td>
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<td>Thl 13</td>
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**Total:** 16

### Senior Year

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<tr>
<td>EdF 419</td>
<td><em>Philosophy of Education</em></td>
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<tr>
<td>EdP 414</td>
<td>Physical Education in the Elementary School</td>
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<tr>
<td>Phl 402</td>
<td>General Metaphysics</td>
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**Total:** 17

---

*Under “Term,” 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.

*Courses listed in italics may be taken in terms other than listed. Consult program advisor.


*May be waived on the basis of previous training.

*Non-Catholic students take EdP 109.


*May substitute Pol 201 or Eco 201.

*Non-Catholic students take Pol 406.

*Non-Catholic students take Phl 403.

*Non-Catholic students take Phl 404.

*These electives should be additional courses from any department other than Education. Students in Elementary Education are encouraged to choose a modern language for their departmental minor. May also be taken in freshman year.

*Non-Catholic students take an elective.
PROGRAM—E2: BACHELOR OF SCIENCE IN SECONDARY EDUCATION

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<td>THL²</td>
<td>152</td>
<td>Intro. to Sacred Scripture</td>
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1Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
2Courses listed in italics may be taken in terms other than listed. Consult program advisor. Language is optional and may be taken in the freshman year.
4Women may be waived on the basis of previous training.
5Non-Catholic students take EdP 109.
6Women take Mth 121-2 or Bio 101-2-3-4.
7Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.
8Non-Catholic students take Phil 402.
9Non-Catholic students take Phil 403.
10Non-Catholic students take Phil 404.
11Non-Catholic students take an elective.
Requirements in High School Teaching Fields

Students following the program in secondary education are required to have at least two teaching fields with a minimum of thirty-six semester credit hours in the principal teaching field (i.e. the field in which the special methods course is taken) and the minimum hours listed below for the second teaching field; or, instead of two teaching fields, they may take a single comprehensive field totaling at least fifty-one semester credit hours. To facilitate placement, students are advised to select fields which are related, e.g., Speech and English, or Science and Mathematics.

In order to be recommended for certification, the student must earn a quality point average of at least 2.500 in each field for which he seeks certification. Certification is valid for teaching in grades seven through twelve.

Minimum requirements in semester credit hours for the second teaching field are as follows: (For detailed course requirements in each field, secure copy of checklist for each teaching field in the Education Office, Room C-104.)

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<thead>
<tr>
<th></th>
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<tr>
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<td>Biological Science</td>
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<td>Music</td>
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<td>Bookkeeping—Basic Business</td>
<td>24</td>
<td>Physical Science (Chemistry &amp; Physics)</td>
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<td>Earth Science</td>
<td>17</td>
<td>Physics</td>
<td>24</td>
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<td>English</td>
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<td>Salesmanship—Merchandising</td>
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<td>General Science</td>
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<td>Social Studies (Comprehensive)</td>
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<td>Health and Physical Education</td>
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<td>Speech</td>
<td>18</td>
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<td>History—Government</td>
<td>27</td>
<td>Stenography—Typing</td>
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<td>Home Economics</td>
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<td>Russian</td>
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**Comprehensive Fields**

In lieu of two separate teaching fields, a single comprehensive field (with a minimum of fifty-one semester hours) may be chosen from the following:

- Art
- Business Education
- English
- Foreign Languages
- History—Gov’t
- Home Economics
- Mathematics
- Music
- Science
- Social Studies
- Speech
# PROGRAM—E3: BACHELOR OF SCIENCE IN PHYSICAL EDUCATION (MEN)

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<td>General Biology</td>
<td>3-3-4</td>
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<td>Personal Typing</td>
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\* 33

\* 37
### Junior Year

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<td>EdP 325</td>
<td>Fundamental Rhythms</td>
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<td>EdP 336</td>
<td>Safety Education and First Aid</td>
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<td>EdP 348</td>
<td>Org. and Adminis. of Recreation</td>
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<td>EdP 350</td>
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### Senior Year

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<td>Coaching Football &amp; Basketball</td>
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<td>EdP 405</td>
<td>Tests, Measurements in Phys. Ed.</td>
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<td>EdP 407</td>
<td>Modern Problems in Public Health</td>
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<td>EdP 408</td>
<td>Physiology of Exercise</td>
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1Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
2Courses listed in italics may be taken in terms other than listed. Consult program advisor.
3May be waived on the basis of previous training.
4Non-Catholic students take EdF 109.
5Non-Catholic students take PEd 109.
6Non-Catholic students take PEd 404 and 405.
7Non-Catholic students take an elective.
PROGRAM—E4: BACHELOR OF SCIENCE IN PHYSICAL EDUCATION (WOMEN)

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<td>EdP</td>
<td>117</td>
<td>Recreation (elective)</td>
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<td>Eng</td>
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<td>English Composition</td>
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**Freshman Year**

**Sophomore Year**

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**Total Credits:** 33
### Junior Year

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### Senior Year

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1. Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
2. Courses listed in italics may be taken in terms other than listed. Consult program advisor.
3. May be waived on the basis of previous training.
5. Non-Catholic students take Phl 402.
6. Non-Catholic students take Phl 404 and 403.
7. Non-Catholic students take an elective.
# Program—E5: Bachelor of Science in Music Education

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Total Credits: 36 points

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The table above outlines the courses and credits for the Bachelor of Science in Music Education program at the University of Dayton. The program is divided into Freshman Year and Sophomore Year courses. Each course is listed with its respective credits and term availability.
**Junior Year**

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<thead>
<tr>
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<td>Mus 322</td>
<td>Instrumentation and Orchestration</td>
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<td>Mus 331</td>
<td>Vocal Music in the High School</td>
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<td>Mus 332</td>
<td>The School Band and Orchestra</td>
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<td>Mus 341</td>
<td>Conducting</td>
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<td>Thl²</td>
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**Total Credits:** 17

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**Senior Year**

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**Total Credits:** 14

---

1. Under "Term," 3.0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
2. Courses listed in italics may be taken in terms other than listed. Consult program advisor.
5. Take Mth 121-2 or Bio 113 and Phy 105.
8. Non-Catholic students take Phl 402.
10. Non-Catholic students take Phl 403.
11. Non-Catholic students take Phl 404.
12. Required for those planning to teach instrumental music in secondary schools.
13. One half credit hour for each semester for participation in Choir, Glee Club, Band or Orchestra.
14. Non-Catholic students take an elective.
PROGRAM—E6: BACHELOR OF SCIENCE IN ART EDUCATION

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<td>Eng</td>
<td>101-2</td>
<td>English Composition</td>
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**Freshman Year**

**Sophomore Year**

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32

33
### Junior Year

| ART   | A201-2 | Advertising Design II and III | 3-0-3 | 3-0-3 |
| ART   | B109   | Modeling                      | 3-0-3 | 3-0-3 |
| ART   | P207   | Life Drawing                  | 3-0-3 | 3-0-3 |
| ART   | P311-2 | Painting (Oil)                | 3-0-3 | 3-0-3 |
| ART   | 407    | Art in the Schools            | 2-0-2 | 2-0-2 |
| ART   | 408    | Great Masters I               | 2-0-2 | 2-0-2 |
| EdE*  | 350    | *The Elementary School*       | 3-0-3 | 3-0-3 |
| ENG   | 222    | American Literature           |       |       |
| SPE   | 101    | Fundamentals of Effective Speaking | 3-0-3 | 3-0-3 |
| THL** |        | Theology elective             | 2-0-2 | 2-0-2 |
| THL** |        | Theology elective             |       |       |

**Total Credits:** 17

### Senior Year

| ART   | C221   | Ceramics (Craft)              | 3-0-3 |  |
| ART   | 409-10 | Great Masters II and III      | 2-0-2 | 2-0-2 |
| ART** |        | Craft electives               | 6-0-6 |  |
| EdF   | 419    | Philosophy of Education       | 3-0-3 |  |
| EdS   | 415    | Student Teaching              | 1-x-9 |  |
| PHL** | 402    | General Metaphysics           | 3-0-3 | 2-0-2 |
| THL** |        | Theology elective             | 2-0-2 |  |
| ART   |        | Enameling                     | 3-0-3 |  |

**Total Credits:** 17

1Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
2Courses listed in italics may be taken in terms other than listed. Consult program advisor.
4Non-Catholic students take EdF 109.
5Take Mth 121-2 or Bio 113 and Phy 105.
6Courses with letter-number codes are taken at the Dayton Art Institute.
7Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.
8Non-Catholic students take Phil 402.
9Take EdE 350 or EdS 351.
10Non-Catholic students take Phil 403.
11Non-Catholic students take Phil 404.
12Craft electives: C222, A221-2, B110.
13Non-Catholics take an elective.
### PROGRAM—E7: BACHELOR OF SCIENCE IN SPEECH EDUCATION

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¹Under "Term:" 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
³May substitute Bio 113 and Phy 105.
⁴Courses listed in italics may be taken in either the first or second term as directed by the program advisor.
⁵Non-Catholic students take EdF 109.
⁶Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.
⁷Take Spe 306 or 310 in the first term and Spe 302 or 204 in the second term.
⁸Non-Catholic students take Phi 402.
⁹Non-Catholic students take Phi 403.
¹⁰Non-Catholic students take Phi 404.
¹¹Non-Catholic students take an elective.
¹²Take Spe 401 or 424.
### PROGRAM—E8: BACHELOR OF SCIENCE IN HOME ECONOMICS EDUCATION

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1Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
2Courses listed in italics may be taken in either the first or second term as directed by the program advisor.
3Non-Catholic students take EdF 109.
4Non-Catholic students take Phil 402.
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6Non-Catholic students take Phil 404.
7Non-Catholic students take an elective.
# PROGRAM—E9: CADET PROGRAM

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<th>2nd Term</th>
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<tbody>
<tr>
<td>EdE</td>
<td>320</td>
<td>Reading and Language Arts</td>
<td>5-0-5</td>
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<tr>
<td>EdE*</td>
<td>350-2</td>
<td>Elementary School</td>
<td>3-0-3</td>
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<td>EdE*</td>
<td>400</td>
<td><em>Religion in the Elementary School</em></td>
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<td>EdE</td>
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<td><em>Mathematics in the Elementary School</em></td>
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<td>EdE</td>
<td>413</td>
<td>Student Teaching</td>
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<tr>
<td>Eng</td>
<td>360</td>
<td>Children's Literature</td>
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<tr>
<td>Hst</td>
<td>101</td>
<td><em>History of Civilization I</em></td>
<td>3-0-3</td>
<td></td>
<td></td>
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<tr>
<td>Mus</td>
<td>—</td>
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<td>Pol*</td>
<td>201</td>
<td><em>American National Government</em></td>
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**Sophomore Year**

<table>
<thead>
<tr>
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*This program has been designed to lead to the degree of Bachelor of Science in Elementary Education. It is scheduled to terminate after October 1, 1966.

*Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.

*Courses listed in italics may be taken in terms other than listed. Consult program advisor.

*May be waived on the basis of previous training.

*Non-Catholic students take EdF 109.

*Non-Catholic students take EdE 350.

*Non-Catholic students take an elective.

*Hst 251 or 252 may be substituted.

NB: A provisional Cadet Certificate (good for four years) may be renewed only upon evidence of the completion of 24 semester credit hours of additional training applicable to the degree in elementary education. A second renewal may be granted under the same requirements.
### PROGRAM—E10: BACHELOR OF SCIENCE IN ELEMENTARY AND SECONDARY EDUCATION (Regina Heights)

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<td>BIO</td>
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<td>ENG</td>
<td>101-2</td>
<td>English Composition</td>
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<td>History of Civilization</td>
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<td>SEC</td>
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<td>Personal Typing</td>
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<tr>
<td>THL</td>
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<td>Sacred Scripture I</td>
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#### Freshman Year (Postulant)

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<td>SEC 107 Personal Typing</td>
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<td>THL 150 Sacred Scripture I</td>
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<tr>
<td>THL 255 Sacred Scripture II</td>
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#### Canonical Year

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<td>PHL 207 Philosophical Psychology</td>
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<td>THL 107-8 Dogmatic Theology I and II</td>
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<td>THL 407 Christology</td>
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#### Sophomore Year

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<tr>
<td>ART 301 Christian Art</td>
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<td>ENG 221 English Literature</td>
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<td>ENG 222 American Literature</td>
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<td>HST 251-2 American History</td>
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<td>PSY 204 General Psychology</td>
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<td>SPE 101 Fundamentals of Effective Speaking</td>
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<td>THL 206 Moral Theology</td>
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<td>THL 307-8 Theological and Moral Virtues I and II</td>
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#### Junior Year

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<tr>
<td>12-0-12</td>
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<td>ART 103 Principles of Geography</td>
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<td>HST 336-7 Church History I and II</td>
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<td>PHL 306 Epistemology</td>
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<td>PHIL 402 General Metaphysics</td>
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#### Senior Year

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<tbody>
<tr>
<td>3-0-3</td>
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<td>ART 103 Latin or Modern Language</td>
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<td>PHL 306 Education or Electives</td>
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<td>THL 368 Mystical Body of Christ</td>
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1. Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
2. During the Junior and Senior Years courses are taken at the University of Dayton.
PROGRAM—E11: B.A. or B.S. DEGREE WITH TEACHER CERTIFICATION

For Students Who Wish to Qualify for a High School Teaching Certificate while working toward a B.S. or B.A. degree in the College of Arts and Sciences.

Students matriculating in the College of Arts and Sciences may enroll in the teacher education program (secondary school program) of the School of Education without needing to transfer to the School of Education. For minimum requirements in professional education courses, see p. 110 of this Catalog; for minimum requirements in teaching fields, see p. 115.

Enrollment in this program is subject to the same admission requirements, counseling, maintenance of a unified system of records, screening, and other professional provisions standard for regular students of the School of Education working toward the B.S. in Education degree. This includes the maintenance of at least a 2.500 average in each teaching field and passing the comprehensive exam (TEEP). During the first semester of their enrollment, these students are given a regular orientation period suited to their special needs.

In order to finish in four years, a student in the College of Arts and Sciences will need to process his application for admission to the teacher education program during the third semester of his matriculation. He will need to begin his professional education sequence in his fourth semester. Failure to enroll on time would necessitate his going beyond the normal four years in order to qualify for teacher certification.

When the student has completed the proper course requirements in seven semesters, he may register for student teaching in the eighth semester (provided his application for student teaching is duly processed at the beginning of the semester directly prior to student teaching and, at that time, has passed the normal screening procedure).
When the duly enrolled student has completed all the requirements for teacher certification, he should make application for the standard State Teaching Certificate through the official recommending officer of the School of Education.

PROGRAM—E12: POST-BACCALAUREATE DEGREE PROGRAM
For Non-professional Degree Holders
Graduates from the University of Dayton who hold a non-professional degree* may be awarded the Bachelor of Science in Education degree as a second degree with the completion of a minimum of thirty semester hours beyond the requirements of the first degree.

The gaining of this second degree offers as one of several advantages that of enabling the candidate to qualify under and to benefit from the national accreditation which the Bachelor of Science in Education degree holds through the National Council for Accreditation of Teacher Education (NCATE).

Prerequisite for admission to this program is a cumulative quality point average on the first degree of at least 2.500 plus the regular screening standards which the School of Education uses for transfer students.

1. For the Four-Year Provisional Elementary Certificate (valid for teaching from Grades one through eight) the candidate is required to have teacher education substantially equivalent to the curriculum as outlined in Program I.

2. For the Four-Year Provisional High School Certificate (valid for teaching from Grades seven through twelve) the candidate needs to have nineteen semester hours in professional education plus whatever additional hours may be needed in teaching fields as listed in Program II.

*It is understood that the non-professional degree referred to above means the degree conferred by the College of Arts and Sciences under the designation of Bachelor of Arts or Bachelor of Science, and not the degrees conferred by professional schools or other highly specialized curricula.

PROGRAM—E13: RETRAINING PROGRAM
For students who have completed requirements for the Provisional High School Certificate or for the Provisional Special Certificate and who desire certification valid for Elementary Teaching.

A. The holder of a Provisional High School or Special Certificate may obtain a certificate valid for elementary teaching by completing the following hours of credit:

<table>
<thead>
<tr>
<th></th>
<th>Cr. Hrs.</th>
</tr>
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<tbody>
<tr>
<td>1. The Elementary School</td>
<td>3</td>
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<tr>
<td>2. Reading in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>*3. Arithmetic in the Elementary School</td>
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</tr>
<tr>
<td>4. Growth and Develop. or Child Psychology</td>
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</table>

B. Such a certificate shall be designated as a “RETRAINING” certificate. It may be renewed upon evidence of the completion of 12 semester hours of additional credit in prescribed courses. Subsequent renewals may be gained without additional training.

*Prerequisite for this is Mth 141-142 or equivalent.
IX School of Engineering

DR. MAURICE GRANEY, Dean
DR. C. RICHARD HORWEDEL, Assistant to the Dean

GENERAL STATEMENT
The School of Engineering has as its purpose the implementation of the general purposes of the University of Dayton in the development of professional attitudes and competencies within its area of academic disciplines.

The engineering curricula in each of the fields of chemical, civil, electrical, industrial, and mechanical engineering are drawn up for a four year minimum period.

No effort is spared to acquaint the student thoroughly with fundamental principles and to give him a clear insight into the analysis of engineering problems. While emphasis is laid on fundamental theory, continued attention is paid to the solution of practical problems for the purpose of illustrating scientific principles and pointing out their industrial applications.

The broader responsibilities of the engineering profession demand that the professional training of an engineer include at least an acquaintance with the humanities in order that scientific discoveries and developments by engineers may result in the real advancement of man. To help the young engineer achieve his purpose in life, the University offers, in addition to the prescribed engineering subjects, a wide selection of courses in the arts and sciences.

ENGINEERING ORIENTATION LECTURES
All entering freshmen are required to attend a series of orientation lectures one hour a week for the first semester of enrollment. These lectures are intended to acquaint the student with the School of Engineering, academic requirements, and the various fields of engineering.

ENGINEERING MATHEMATICS
Since a sound knowledge of mathematics is essential for success in engineering, the School of Engineering tries to place each entering student at the proper level. Freshmen who are qualified will be placed in Mth 216, Analytic Geometry and Calculus I. Those who are not qualified will be placed in a lower level mathematics course.
DEGREE REQUIREMENTS

The Degrees—Bachelor of Chemical, Civil, Electrical, Industrial, and Mechanical Engineering—are conferred at commencement if the following requirements have been fulfilled:

1) All prescribed courses outlined in the respective curricula must have been passed with a grade D or better;
2) The cumulative quality point average must be at least 2.0;
3) The student must have attended the School of Engineering at the University of Dayton during his senior year, and have carried at least thirty credit hours.

CURRICULUM FOR ALL ENGINEERING FRESHMEN

<table>
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<tr>
<th>Dept.</th>
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<td>233</td>
<td>Fortran Programming</td>
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<td>ENGC</td>
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<td>English Composition</td>
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<td>MTHe</td>
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<td>MEEb</td>
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<td>Engineering Graphics I</td>
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<td>Intro. to Philosophy &amp; Logic</td>
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<td>Introduction to Sacred Scripture</td>
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a Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
b Required in Civil Engineering and Industrial Engineering Programs only.
c Courses listed in italics may be taken in terms other than listed. Consult program advisor.
e Non-Catholics consult General Curriculum Requirements.

CHEMICAL ENGINEERING

The objective of the curriculum in chemical engineering is the training of students for design, construction and operation of chemical equipment. Chemical engineering applies the principles of the physical sciences, economics and human relations to fields that pertain to processes and process equipment in which matter is treated to effect a change in state, energy or composition.

The first part of the curriculum provides a firm foundation in mathematics, physics and chemistry. The chemistry background is stressed in chemical engineering. Courses include inorganic, organic, analytical and physical chemistry. The second part of the curriculum stresses chemical engineering topics such as transport phenomena, thermodynamics, kinetics, unit operations and processes, process control, materials of construction and design.

The Chemical Engineering department is located in Wohleben Hall. Three stories of the north wing house the Unit Operations Laboratory. Experimental equipment includes units for the study of fluid flow, heat transfer, distillation extraction, filtration, evaporation and drying. The Process Control and Transport Phenomena Laboratories are located on the second floor. In addition to the instructional laboratories, the department has a wood working shop, pipe fitting shop, analytical laboratory and dark room. The department has its own analog computer and a Burroughs 220 digital computer is available for use in the Research Institute.
The curriculum in chemical engineering serves as basic training for graduate study or for positions in diverse areas of the chemical industry.

### PROGRAM—EN1: BACHELOR OF CHEMICAL ENGINEERING

<table>
<thead>
<tr>
<th>Dept.</th>
<th>No.</th>
<th>Course</th>
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<tr>
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<td>Material and Energy Balances</td>
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1 Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
2 Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.
3 Non-Catholic students consult General Curriculum Requirements.
4 Chemical Engineering electives: Cme 461, Cme 499, also Cme 501, Cme 502, Cme 503 and Cme 504 described in Graduate Bulletin.
CIVIL ENGINEERING

The curriculum is designed to give a thorough education in the principles fundamental to the civil engineering profession, so that the graduate is prepared to pursue to advantage any field of civil practice or advanced study.

During the first two years, emphasis is placed on those subjects underlying all engineering—English, mathematics, chemistry, physics, drawing, surveying, mechanics. The third and fourth years are devoted principally to technical subjects relative to hydraulic, sanitary, structural, highway, and soils engineering.

Engineering projects, completed or under construction, are visited under the guidance of the instructors. The Student Chapter of the American Society of Civil Engineers is very active, and close association is maintained with the Dayton Section of the American Society of Civil Engineers.

PROGRAM—EN2: BACHELOR OF CIVIL ENGINEERING

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Sophomore Year

Junior Year

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Senior Year

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Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.

1Summer after Sophomore year. Cie 205L, Surveying Field Practice (three weeks special summer schedule which does not conflict with regular third term).


3Non-Catholic students consult General Curriculum Requirements.

4Civil Engineering electives: Cie 421, Cie 422, Cie 499, also Cie 502, Cie 504, Cie 506, Cie 524, Cie 542, and Cie 544 described in Graduate Bulletin.

ELECTRICAL ENGINEERING

The curriculum of electrical engineering is planned with the primary objective of providing a thorough knowledge of the fundamental laws of electricity and the application of these laws in electrical engineering.

Courses are arranged to give students of electrical engineering an understanding of the basic principles and practices in the fields of electrical power and electrical communications. Some degree of specialization in these fields is provided according to the abilities and interests of the individual students.

Proper attention is directed to an appreciation of the practical economic factors in the electrical world, and to the cultural and social qualities necessary for a successful career in the engineering profession.
### PROGRAM—EN3: BACHELOR OF ELECTRICAL ENGINEERING

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| ELE 309  | Electrical Transients               | 3-0-3    |          |          |
| ELE 310  | Circuit Analysis                    |          | 3-2-4    |          |
| ELE 312-3 | Engineering Electronics            | 3-2-4    | 3-2-4    |          |
| ELE 410  | Seminar                             | 1-0-0    | 1-0-0    |          |
| ELE 411  | Field Theory                        |          | 3-0-3    |          |
| MTH 342  | Advanced Engineering Mathematics II |          | 3-0-3    |          |
| PHL* 306 | Epistemology                        |          | 3-0-3    |          |
| THL*     | Theology elective                   |          | 2-0-2    |          |
|          | Humanistic Social Studies           |          |          | 3-0-3    |
|          |                                     |          | 16       | 16       |

| **Senior Year** |
| ELE 318-403 | Machinery I—I I                     | 3-0-3    | 3-2-4    |          |
| ELE 410    | Seminar                             | 1-0-0    | 1-0-1    |          |
| ELE 413    | Communication Engineering           |          | 3-2-4    |          |
| ELE 414    | Advanced Electronics                |          | 3-0-3    |          |
| INE 313    | Engineering Law                     |          | 2-0-2    |          |
| MEE 301    | Thermodynamics                      |          | 3-0-3    |          |
| PHL* 402   | General Metaphysics                 |          | 3-0-3    |          |
| THL*       | Theology electives                  |          | 4-0-4    |          |
|           | Electrical Engineering electives*   |          | 3-0-3    | 3-0-3    |
|           |                                     |          | 16       | 17       |

1Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
2Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.
3Non-Catholic students consult General Curriculum Requirements.
INDUSTRIAL ENGINEERING

The industrial engineering profession applies creative ability in a scientific manner to the design, installation, or improvement of complex integrated systems involving physical resources such as machinery, equipment, materials, and money; so that people may be more effective in reaching their objective.

The profession emphasizes the combination and integration of knowledge from many disciplines. It strives to utilize scientific methods to arrive at proper relationships of men, materials, machinery, and money and in design of systems. The industrial engineer is, therefore, required to call upon many other specialists for detailed knowledge of specialized components of the systems. These may involve many other branches of engineering, other scientific and non-scientific disciplines.

In emphasizing accomplishment, industrial engineering represents the engineering approach to management (the responsibility for achieving objectives through people). However, industrial engineering principles and practices are useful to all areas of human industry—where employment is purposeful and systematic; where men give attention to achievement and are diligent in their attempts to accomplish objectives, especially where land, capital, and labor meet and must be economically and efficiently related.

In accord with the objectives of the University, the industrial engineering curriculum reflects the understanding that the tasks which people perform are subordinate to the people themselves. Therefore, the industrial engineering curriculum is designed to help the student develop sound religious and moral convictions, broad knowledge and basic intellectual habits, physical vigor and emotional stability, a keen awareness of social responsibility along with his specialized professional attitudes and competencies.

PROGRAM—EN4: BACHELOR OF INDUSTRIAL ENGINEERING

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Freshman Year: 6
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### Notes

^Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.

Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.

Non-Catholic students consult General Curriculum Requirements.

Industrial Engineering electives: Ine 311, Ine 320, Ine 321, Ine 499.

### MECHANICAL ENGINEERING

The curriculum of mechanical engineering is designed to give the student knowledge of the fundamental principles of science and the application of these principles to pertinent problems.

Basic studies in mathematics and the sciences are pursued in the first two years and departmental subjects are taken up in the last two years. The course of studies comprises lectures, recitations and discussions, laboratory practice, and inspection visits.

Every attempt is made to impress the student with the responsibilities that rest upon the mechanical engineer, whether engaged as designer, builder, operator, organizer, manager or executive.
PROGRAM—EN5: BACHELOR OF MECHANICAL ENGINEERING

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Sophomore Year: 17 credits

Junior Year

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Junior Year: 17 credits

Senior Year

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Senior Year: 15 credits

¹Under "Term," 3.0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
²Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.
³Non-Catholic students consult General Curriculum Requirements.
⁴Mechanical Engineering electives: Mee 416, Mee 416L, Mee 421, Mee 431, Mee 499.
OBJECTIVES
The Technical Institute is a division of the School of Engineering and has as its objective the collegiate education of young men and women to be competent engineering and scientific technicians.

It is the philosophy of the Technical Institute that this objective is best accomplished by:

1. Providing specialized technical courses which emphasize the use of rational thinking and the application of scientific principles to the practical solution of technological problems.
2. Providing courses in mathematics and basic science sufficient to support the technical courses and to prepare the student for future growth.
3. Providing education to prepare the student to communicate intelligently and to take his place in society as a responsible Christian citizen.

THE ENGINEERING TECHNICIAN
An engineering technician is one who works in the engineering field. His work requires the application of established engineering knowledge and methods combined with technical skills in the support of engineering activities. He differs from the craftsman and the draftsman in his knowledge of engineering theory and methods. He also differs from the engineer in his more specialized background and his use of technical skills.

It should be noted that the engineering technician is concerned with the application of established scientific and engineering knowledge and methods. Therefore, Technical Institute programs consist of courses especially designed to emphasize the use of engineering knowledge. The engineering technician, as stated above, works in the support of engineering activities. He is usually involved in the design, testing, sales, and construction of products, and in some instances the supervision of craftsmen or other technicians. The engineering technician is a definite part of the scientific-engineering team. He works with the scientist who develops the theory, the engineer who seeks means of making effective use of this theory, and the skilled craftsman who works with tools to construct the finished product.

The current shortage of engineers has increased the use of engineering technicians by industry and engineering technicians themselves are in short supply. The need for competent engineering technicians educated at the college level is high and the future holds a bright prospect for those who are in this field.
PROGRAMS OFFERED

Associate Degree Curricula

The Technical Institute offers programs in chemical technology, electronic engineering technology, industrial engineering technology, and mechanical engineering technology leading to the associate degree. These programs are five terms in length and include specialized technical subjects, non-technical subjects, mathematics and science. Upon satisfactory completion of the prescribed courses in the programs outlined on the following pages the student is awarded the Associate in Technology degree. The holder of such a degree is prepared to enter industry as a beginning engineering technician.

Bachelor of Technology Degree

Since education is a lifelong process, some engineering technicians desire to continue their education. In particular, many wish to broaden their technical background to include areas other than their associate degree specialization. The objectives of the Bachelor of Technology program are to offer graduates from the associate degree programs the opportunity to broaden themselves technically as well as culturally. The requirements for this degree are outlined in the program on a following page.

GUIDANCE AND COUNSELING

The facilities of the Guidance Center are available for Technical Institute students. Staff members experienced in this type of program will be on hand before and during registration. Prospective students are encouraged to visit the campus or telephone for information regarding any of the programs offered.

CREDITS

All courses in the Technical Institute are evaluated on a semester hour basis. Recitation and similar classroom work generally require outside preparation, while laboratory or practice periods are usually self-contained.

CHEMICAL TECHNOLOGY

Chemical technology is designed to prepare students for technological services in chemical manufacturing plants and processing industries as well as for technical positions in chemical laboratories.

Emphasis is placed upon laboratory procedures for basic chemical analysis, especially quantitative analysis, certain non-technical subjects, mathematics, and physics.
### PROGRAM—TI: ASSOCIATE IN TECHNOLOGY WITH MAJOR IN CHEMICAL TECHNOLOGY

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#### Freshman Year

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| Total | 18½ | 16½ | 35-69½ |

⁴Non-Catholic students consult General Curriculum Requirements.
⁵Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.

### ELECTRONIC ENGINEERING TECHNOLOGY

Electronic engineering technology is designed to prepare students for services as engineering technicians in the modern industrial world. Emphasis is placed on the fundamentals of circuit-theory, electronics, and measurements in addition to related courses in mathematics, physics, and chemistry. The graduate is thus prepared to perform research...

PROGRAM—T2: ASSOCIATE IN TECHNOLOGY WITH MAJOR IN ELECTRONIC ENGINEERING TECHNOLOGY

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<td>E105</td>
<td>Electronic Measurements</td>
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<td>E106</td>
<td>Second Year Basic Course</td>
<td>2-1-1</td>
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<tr>
<td>M110-2</td>
<td>Mechanics: Statics and Dynamics</td>
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<tr>
<td>P120</td>
<td>Mathematics for Electrical Technology</td>
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<tr>
<td>S124</td>
<td>Physics: Heat, Light &amp; Sound</td>
<td>2-2-2½</td>
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<tr>
<td>S125</td>
<td>Report Writing</td>
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<tr>
<td>S126</td>
<td>Economics of Industry</td>
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<td>3-0-3</td>
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<td>T152</td>
<td>Theology of Christ</td>
<td>3-0-3</td>
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**Sophomore Year**

**Junior Year**

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<th>3rd Term</th>
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<td>E132</td>
<td>SemiConductor Fundamentals</td>
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<td>E133</td>
<td>Digital Computer Fundamentals</td>
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<tr>
<td>E134</td>
<td>Pulse Circuit Fundamentals</td>
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<td>E135</td>
<td>Electronic Circuit Diagrams</td>
<td>0-6-2</td>
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<td>E136</td>
<td>Special Electronic Projects</td>
<td>1-0-1</td>
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<td>S138</td>
<td>American Political Ideas</td>
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</table>

1. Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
3. Non-Catholic students consult General Curriculum Requirements.
INDUSTRIAL ENGINEERING TECHNOLOGY

The curriculum in industrial engineering technology has as its objective the implementation of the broad purposes of the University in a college program of technical education by:

(1) Providing education to prepare students for subsequent development as responsible Christian citizens;

(2) Providing education in mathematics and basic sciences sufficient to support the specialized technical portion of the curriculum and to increase the student's awareness of fundamental scientific principles in order to facilitate his future growth in an advancing technology;

(3) Providing specialized education designed to prepare students primarily for technological services to management in such industrial engineering areas as production, operations and control. It also covers the essentials of management with which foremen, supervisors, and administrative personnel in general are concerned.

Emphasis is placed on courses in motion and time study, production control, plant layout, quality control, and cost control. An E.C.P.D. accredited Engineering Technology curriculum.
PROGRAM—T3: ASSOCIATE IN TECHNOLOGY WITH MAJOR IN INDUSTRIAL ENGINEERING TECHNOLOGY

<table>
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<tr>
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<td>Industrial Materials and Processes</td>
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<td>MIL²</td>
<td>101-2</td>
<td>First Year Basic Course</td>
<td>0-6-2</td>
<td>0-3-1</td>
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<td>MII</td>
<td>106L</td>
<td>Testing and Measurements</td>
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<td>MII</td>
<td>107L</td>
<td>Machine Tool Operation</td>
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<tr>
<td>ORI</td>
<td>100</td>
<td>Orientation</td>
<td>1-0-0</td>
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<tr>
<td>PHL</td>
<td>105</td>
<td>Intro. to Philosophy &amp; Logic</td>
<td>3-0-3</td>
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<td>3-0-3</td>
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<td>STI</td>
<td>105-6</td>
<td>Technical Institute Mathematics</td>
<td>3-0-3</td>
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<td>STI</td>
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<tr>
<td>STI</td>
<td>130</td>
<td>English Composition</td>
<td>3-0-3</td>
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<tr>
<td>STI</td>
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<td>Effective Speaking</td>
<td>3-0-3</td>
<td>2-0-2</td>
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<td>THL³</td>
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<td>Report Writing</td>
<td>3-0-3</td>
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<td>THL³</td>
<td>152</td>
<td>Introduction to Sacred Scripture</td>
<td>3-0-3</td>
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<th>Freshman Year</th>
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<tbody>
<tr>
<td>ITI 108 Production Methods &amp; Control</td>
</tr>
<tr>
<td>ITI 203 Elements of Supervision</td>
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<tr>
<td>ITI 215 Elements of Cost Control</td>
</tr>
<tr>
<td>ITI 216 Quantitative Methods in Ind. Eng. Tech.</td>
</tr>
<tr>
<td>ITI 217 Industrial Economic Analysis</td>
</tr>
<tr>
<td>ITI 230 Motion and Time Study I</td>
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<tr>
<td>MIL² 201-2 Second Year Basic Course</td>
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<tr>
<td>MII 213 Industrial Mechanisms</td>
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<tr>
<td>STI 122 Industrial Chemistry</td>
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<tr>
<td>STI 213 Physics: Electricity</td>
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<td>STI 214 Physics: Heat, Light &amp; Sound</td>
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<td>STI 251 Economics of Industry</td>
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<td>THL³ 220 Theology of Christ</td>
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<thead>
<tr>
<th>Sophomore Year</th>
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<tbody>
<tr>
<td>ITI 305 Labor &amp; Wage Administration</td>
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<tr>
<td>ITI 318 Statistical Quality Control</td>
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<tr>
<td>ITI 331 Motion and Time Study II</td>
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<tr>
<td>ITI 332 Plant Layout</td>
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<tr>
<td>PHL 404 Ethics</td>
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<tr>
<td>STI 252 American Political Ideas</td>
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</table>

³Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
²Non-Catholic students consult General Curriculum Requirements.
³Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.
MECHANICAL ENGINEERING TECHNOLOGY

This curriculum is designed to give the student a practical knowledge of the modern fundamental principles of mechanical engineering technology as they are applied in industrial and scientific endeavor.

Emphasis is placed on courses in applied mechanics; strength of materials; mechanism; thermodynamics; fluid mechanics; electronic technology; industrial automation actuation; dies, jig and fixture design; machine design, and basic technical courses such as technical drawing, physics, mathematics and chemistry which prepare a graduate to perform successfully as an aide to scientists and professional engineers.

The non-technical courses English, speech and report writing are specially designed to teach a student how to formulate and deliver technical communications, both oral and written.

Typical mechanical engineering technician assignments are research and development laboratory technician, board designer, technical report writer, erection and maintenance technician, field service and customer relations technician, plant engineering technician and industrial automation actuation technician. An E.C.P.D. accredited Engineering Technology curriculum.
## PROGRAM—T4: ASSOCIATE IN TECHNOLOGY WITH MAJOR IN MECHANICAL ENGINEERING TECHNOLOGY

<table>
<thead>
<tr>
<th>Dept.</th>
<th>No.</th>
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<th>3rd Term</th>
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<tbody>
<tr>
<td>ITI</td>
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<td>Industrial Organization &amp; Production</td>
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</tr>
<tr>
<td>ITI</td>
<td>104</td>
<td>Industrial Materials &amp; Processes</td>
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<td>MIL²</td>
<td>101-2</td>
<td>First Year Basic Course</td>
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<td>Mti</td>
<td>103L</td>
<td>Technical Drawing</td>
<td>0-6-2</td>
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<tr>
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<td>100</td>
<td>Orientation</td>
<td>1-0-0</td>
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<tr>
<td>PHI</td>
<td>105</td>
<td>Intro. to Philosophy &amp; Logic</td>
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<tr>
<td>STE</td>
<td>105-6</td>
<td>Technical Institute Mathematics</td>
<td>3-0-3</td>
<td>2-2-2½</td>
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<tr>
<td>STE</td>
<td>114</td>
<td>Physics: Mechanics</td>
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<td>3-3-4</td>
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<td>STE</td>
<td>122</td>
<td>Industrial Chemistry</td>
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<td>STE</td>
<td>130</td>
<td>English Composition</td>
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<tr>
<td>STE</td>
<td>234</td>
<td>Report Writing</td>
<td></td>
<td>2-0-2</td>
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</tr>
<tr>
<td>THL³</td>
<td>152</td>
<td>Introduction to Sacred Scripture</td>
<td>3-0-3</td>
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</tr>
</tbody>
</table>

**Freshman Year**

| ITI   | 203 | Elements of Supervision                       |          | 2-0-2    |          |
| MIL²  | 201-2| Second Year Basic Course                      | 2-1-1    | 2-1-1    |          |
| Mti   | 104L| Graphical Computations                        | 0-6-2    |          |          |
| Mti   | 106L| Testing and Measurements                      | 0-3-1    |          |          |
| Mti   | 107L| Machine Tool Operation                        |          | 0-3-1    |          |
| Mti   | 221 | Strength of Materials                         | 3-0-3    |          |          |
| Mti   | 224 | Statics                                       | 2-0-2    |          |          |
| Mti   | 225 | Dynamics                                      | 2-0-2    |          |          |
| Mti   | 226L| Mechanism                                     | 1-3-2    |          |          |
| Mti   | 321L| Dies, Jigs, and Fixtures                      |          | 1-3-2    |          |
| Mti   | 230 | Thermodynamics                                 | 2-0-2    |          |          |
| Mti   | 231 | Fluid Mechanics                               | 3-0-3    |          |          |
| STE   | 206 | Mathematics for Mechanical Design Technology | 3-0-3    | 2-2-2½   |          |
| STE   | 213 | Physics: Electricity                          |          |          |          |
| STE   | 214 | Physics: Heat, Light & Sound                  | 2-2-2½   |          |          |
| STE   | 252 | American Political Ideas                      |          | 3-0-3    |          |

**Sophomore Year**

| ITI   | 201 | Fundamentals of Electronic Technology         | 3-0-3    |          |          |
| Mti   | 327L| Industrial Automation Actuation               | 1-3-2    |          |          |
| Mti   | 322L| Machine Design                                | 1-3-2    |          |          |
| PHI   | 404 | Ethics                                        | 3-0-3    |          |          |
| STE   | 134 | Effective Speaking                            | 2-0-2    |          |          |
| STE   | 251 | Economics of Industry                         | 3-0-3    |          |          |
| THL³  | 220 | Theology of Christ                            | 3-0-3    |          |          |

**Junior Year**

| ITI   | 201 | Fundamentals of Electronic Technology         | 3-0-3    |          |          |
| Mti   | 327L| Industrial Automation Actuation               | 1-3-2    |          |          |
| Mti   | 322L| Machine Design                                | 1-3-2    |          |          |
| PHI   | 404 | Ethics                                        | 3-0-3    |          |          |
| STE   | 134 | Effective Speaking                            | 2-0-2    |          |          |
| STE   | 251 | Economics of Industry                         | 3-0-3    |          |          |
| THL³  | 220 | Theology of Christ                            | 3-0-3    |          |          |

¹Under "Term," 3-0-3 means 3 hrs. class, 0 hrs. laboratory, and 3 hrs. credit.
³Non-Catholic students consult General Curriculum Requirements.
⁴Women take EdP 112-3; men not taking R.O.T.C. take EdP 201-2.
BACHELOR OF TECHNOLOGY

The curriculum is designed to provide the opportunity for those who hold the Associate in Technology degree to continue their education. Emphasis is placed upon broadening the student's technical knowledge. Flexibility in the curriculum permits the student with his advisor's consent to plan an individual program based on his needs, interests, educational background and occupational objectives.

PROGRAM—T5: BACHELOR OF TECHNOLOGY

Degree requirements for the Bachelor of Technology:

A. Completion of the requirements for the Associate in Technology degree.
B. Completion of a minimum of 45 additional credit hours distributed as follows:

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<td>ENG</td>
<td>222</td>
<td>American Literature</td>
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<td>PHL²</td>
<td>207</td>
<td>Philosophical Psychology</td>
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<tr>
<td>PHL</td>
<td>306</td>
<td>Epistemology</td>
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<td>Advanced Technical Institute Math.</td>
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<td>Psychology of Human Relations</td>
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<td>Non-Technical electives</td>
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¹Non-Catholics consult General Curriculum Requirements.
Courses of Instruction

Accounting (Acc)

Joseph F. Updyke, Chairman

Professor: Hoben
Associate Professors: Updyke, Kriegbaum, Fioriti
Assistant Professors: Clark, Rodgers, Eley
Part-time Instructors: Bourne, Guenther, McGohan, Michel, Rotterman, Shank, Vlahos, Wagner, Wiggins

Acc 203. Survey of Accounting
THREE CREDIT HOURS
A consideration of the basic principles of accounting, including debits and credits, the balance sheet, the statement of profit and loss, the statement of surplus and elements of cost accounting from an interpretative viewpoint.

Acc 207-208. Principles of Accounting
SIX CREDIT HOURS
The purpose of the course is to acquaint the student with the primary function of accounting and introduce him to the entire accounting cycle in single proprietorships, partnerships, and corporations. This is a prerequisite to all other courses in accounting.

Acc 209. Principles of Automated Accounting
TWO CREDIT HOURS
A course acquainting the business student with the most current methods of processing accounting data into accounting statements and managerial reports.

Acc 303. Cost Accounting
THREE CREDIT HOURS
This is an introductory course in the theory and practice of cost accounting as used in job, process, and estimated cost systems. Emphasis is placed on cost principles, control, and procedures in relation to materials, labor, and manufacturing expenses.

Acc 304. Advanced Cost Accounting
THREE CREDIT HOURS
Analysis and control of industrial costs through utilization of budgetary procedures and standard cost systems. Study of distribution costs, profit-volume analyses, and cost reports used in managerial and administrative decisions.
Acc 305-306. Intermediate Accounting I & II  
Six Credit Hours
A detailed study of the components appearing in accounting statements. An introduction to alternative procedures and terminology; analysis; theory; and current professional pronouncements.

Acc 308. Advanced Accounting  
Three Credit Hours
This course introduces the student to some of the more specialized accounting subjects such as special sales procedures, insolvencies, estates and trusts, branch and home office, and consolidated statements.

Acc 310. Cost Accounting Analysis  
Three Credit Hours
Elements of manufacturing costs; cost and financial statement analysis; cost systems and budgets. Course is intended for students outside School of Business Administration. Prerequisites: Acc 207-208 or Acc 203.

Acc 312. Governmental Accounting  
Three Credit Hours
Accounting for institutions, municipalities, and for state and federal governments; organization; procedure, budget, accounts and records, reports.

Acc 320. Budgetary Procedures for Management Control  
Three Credit Hours
Role of the budget as it relates to management functions of motivation, planning, organization, and control. A study is made of the construction, control, and interpretation of accounts for a business enterprise.

Acc 401. Auditing  
Three Credit Hours
Re-examination of accounting principles as related to current accounting practice. Study of the auditor's report; auditing standards, procedures, and ethics used by the public accountant examining business enterprises.

Acc 403. Analysis of Financial Statements  
Three Credit Hours
The financial reports of business concerns are examined for content and organization. Methods are developed for statement evaluation from the viewpoints of management, stockholders, and creditors.

Acc 407. Federal Income Tax Accounting  
Three Credit Hours
An interpretation of the income tax portions of the current Revenue Act. The preparation of the individual, partnership and corporation income tax returns.

Acc 408. Federal, State, and Local Taxes  
Three Credit Hours
An interpretation of the social security, estate, gift and excise tax portions of the current Revenue Act. A study of income, franchise, property, sales and payroll taxes currently typical in states (particularly Ohio) and municipalities.

Acc 413. Advanced Accounting Problems  
Three Credit Hours
A comprehensive review of accounting principles with training in the techniques of applying these principles to the solution of specific problems. Designed as a guide for preparation for the C. P. A. examination.

Acc 414. Seminar in Accounting  
Three Credit Hours
Course consists of a study of current topics by individual reports, student panel discussions, open class discussions, case studies, and outside professional speakers. Recommended to seniors in accounting.
Biology (Bio)

Dr. George B. Noland, Chairman

Professor: Noland

Associate Professors: Cooney, Faso, Joly, Shay

Assistant Professors: Chantell, Geiger, Laufersweiler, MacMahon, Ramsey, Willis

Instructors: Allsman, Bajpai

All laboratories must be taken concurrently with the corresponding lecture courses.

Bio 101. GENERAL BIOLOGY I
A study of the more important biological processes and principles through analysis and synthesis. Deals primarily with the organizational aspects of living matter.

Bio 101L. GENERAL BIOLOGY LABORATORY I
Course to accompany Bio 101. One three-hour laboratory per week in which the investigative and experimental approach is stressed.

Bio 102. GENERAL BIOLOGY II

Bio 102L. GENERAL BIOLOGY LABORATORY II
Course to accompany Bio 102. One three-hour laboratory period per week.

Bio 114. BIOLOGICAL SCIENCE
An introduction to the various biological sciences for non-science majors. Stresses those principles which apply to all forms of life, taking examples from plant, animal and microbial life.

Bio 114L. BIOLOGICAL SCIENCE LABORATORY
Laboratory course to demonstrate and emphasize those principles discussed in lecture. One two-hour lab per week.

Bio 205-206. HUMAN ANATOMY AND PHYSIOLOGY
Lecture-demonstrations on the various organs and systems composing the body. The functions of the human body as a living organism are integrated with the study of structure. Prerequisites: Bio 101-102.

Bio 206L. HUMAN ANATOMY AND PHYSIOLOGY LABORATORY
Course to accompany Bio 206. Prerequisite: permission of instructor.

Bio 207. HUMAN ANATOMY
A foundation study in the basic anatomy of the human body, consisting of lecture demonstrations on the various organs and systems composing the body. Prerequisites: Bio 101-102 or Bio 113.

Bio 207L. HUMAN ANATOMY LABORATORY
A course to accompany Bio 207 lecture. One three-hour period per week.
Bio 209. Comparative Anatomy of the Vertebrates
A study of the similarities and the differences in the anatomy of the different organ systems of the various vertebrate groups. Embryology, histology, and morphology play an important role in this study. Prerequisites: Bio 101-102.

Bio 209L. Comparative Anatomy Laboratory
Course to accompany Bio 209 lecture. Two three-hour periods per week.

Bio 214L. Comparative Anatomy Laboratory
Course to accompany Bio 209 when taught at night. One three-hour lab per week.

Bio 220. General Botany
A consideration of the structure, physiology, reproduction and inheritance of representatives of the plant groups. The importance of plants in the life of man will be discussed. Prerequisites: Bio 101, 102.

Bio 220L. General Botany Laboratory
A course to accompany Bio 220 lecture. One three-hour laboratory period per week.

Bio 303. Physiology
A study of the mammalian systems. Sufficient anatomy is introduced to give at least an elementary knowledge of the organs and organ systems. Prerequisites: Bio 101-102, Chm 123-124. Chm 313-314 recommended.

Bio 303L. Physiology Laboratory
Course to accompany Bio 303 lecture. One three-hour period per week.

Bio 304. Histology
Fundamentals of cell structure, tissue organization and microscopic anatomy of the vertebrate animal; stress on the mammals. Kodachromes will take the place of microscopic work. Prerequisites: Bio 101-102.

Bio 310. Microtechnique and Histology
Fundamentals of cell morphology, microscopic structure of tissues and organs, and discussion of techniques in their study. Prerequisite: Bio 101-102.

Bio 310L. Microtechnique and Histology Laboratory
Fundamentals of fixing and processing various tissues in the preparation of slides; aims at recognition of microstructure of normal tissues. Prerequisite: Bio 101-102.

Bio 312. General Genetics
A study of the principles of variation and heredity in plants and animals, with stress on the inheritance of human characteristics. Prerequisites: Bio 101-102 and Mth 121.

Bio 312L. General Genetics Laboratory
Course to accompany Bio 312. One two-hour period per week.

Bio 315. Systematic Botany
A study of the theory and techniques of plant classification, stressing the evidence used in phylogenetic and evolutionary schema. Prerequisite: Bio 220 or consent of instructor.

Bio 315L. Systematic Botany Laboratory
Laboratory, field and herbarium techniques necessary to studies of plant systematics will be considered.
Bio 316. **Plant Morphology**
Three credit hours
A lecture and laboratory course dealing with the structure, reproduction and evolution of representative plant groups. Prerequisite: Bio 220 or consent of instructor.

Bio 316L. **Plant Morphology**
One credit hour
Course to accompany Bio 316 lecture. One three-hour period each week.

Bio 320. **Evolution**
Three credit hours
The course presents the evidence of evolution and discusses the factors which initiate change in species and the agencies which guide it. Prerequisites: Bio 101-102. Bio 209 recommended, or consent of instructor.

Bio 321. **Morphogenesis**
Three credit hours
A study of the principles of development of form and function at the cellular, tissue and organ levels of integration. Prerequisite: Bio 101, 102.

Bio 321L. **Morphogenesis Laboratory**
One credit hour
Course stressing experimental and investigational aspects of development.

Bio 324. **Entomology**
Two credit hours
The biology, morphology and identification of insects with emphasis of the local forms. The influence of insects and related animals on man and his possessions. Prerequisite: Bio 101 and 102.

Bio 324L. **Entomology Laboratory**
One credit hour
Course to accompany Bio 324 lecture. Students will be required to prepare a properly identified collection. One three-hour period per week.

Bio 325. **Parasitology**
Two credit hours
An introduction to the morphology, life history and significance of those organisms deriving their sustenance from the tissues of others. Prerequisite: Bio 101 and 102.

Bio 325L. **Parasitology Laboratory**
One credit hour
Course to accompany Bio 325 lecture. One three-hour period per week. Stresses the recognition of common parasites.

Bio 330. **Plant Physiology**
Three credit hours
A study of plant metabolism including water relations, photosynthesis, mineral nutrition, growth and reproduction. Prerequisites: Bio 101, 102, Chm 123, 124, and consent of instructor.

Bio 330L. **Plant Physiology Laboratory**
One credit hour
Course to accompany Bio 330 lecture. One three-hour laboratory per week.

Bio 361. **Invertebrate Zoology**
Two credit hours
A course designed to give the student a general knowledge of the structure, activities, life histories and relationships of the invertebrate animals, with some emphasis on their origin and development. Prerequisites: Bio 101, 102.

Bio 361L. **Invertebrate Zoology Laboratory**
Two credit hours
Course to accompany Bio 330 lecture. Two three-hour laboratory periods per week.
BIO 407. EMBRYOLOGY
The course considers the early stages of animal development, paying special attention to the study of the development of the chick and the pig. Prerequisites: Bio 101, 102 and 209.

BIO 407L. EMBRYOLOGY LABORATORY
Course to accompany Bio 407 lecture. One four-hour period per week.

BIO 411. GENERAL BACTERIOLOGY
An introductory course in bacteriology stressing the physiology, cultivation, and classification of bacteria. Their role in medicine, agriculture and industry is emphasized. Prerequisites: Bio 101-102 and Chm 123-124. Chm 313-314 recommended.

BIO 411L. GENERAL BACTERIOLOGY LABORATORY
Course to accompany Bio 411 lecture. Two two-hour periods per week.

BIO 412. HUMAN GENETICS
A study of the genetic principles as applied to families, pedigrees and to large populations. Some aspects of genetic counseling and medicolegal problems are summarily discussed. Prerequisites: 312 and Mth 121.

BIO 416. PATHOGENIC BACTERIOLOGY
A brief survey of the bacteria which cause disease in man. Host-parasite relationships in resistance and infection are stressed. Prerequisite: Bio 411.

BIO 416L. PATHOGENIC BACTERIOLOGY
A course to accompany Bio 416 lecture. One two-hour period per week.

BIO 420. SEMINAR
Practice in development, presentation, and discussion of papers dealing with biological problems. Prerequisite: Jr. and Sr. standing.

BIO 421. BIOLOGICAL PROBLEMS
(laboratory work)

BIO 422. BIOLOGICAL PROBLEMS
(library work)

BIO 454. NEUROANATOMY
Study of neurological structure and function and its influence on sensation, perception, learning, and adjustment. Prerequisite: Bio 207. Accredited also in Psychology.
Business Management (Bus)

Barth J. Snyder, Chairman
Professor: Snyder
Associate Professors: George, Bosshart, Kreider, Matlin
Assistant Professors: Buckenmeyer, Fuszara, Schneider, Walden
Instructor: Marrinan
Part-time Instructors: Cleland, Davis, Ehnes, Hamilton, Hellwig, Hoefling, Mervar, Meyer, Ondercin, Pryor, Quinn, Stephenson, Taubenheim, Waterhouse, Yaross

Bus 101. INTRODUCTION TO BUSINESS
Three Credit Hours
A survey of the fields of business and their inter-relationship. The objectives are to emphasize business concepts and to prepare the students for specialized courses.

Bus 121. ALGEBRA FOR BUSINESS
Three Credit Hours
Introduction to basic algebraic operations and their applications to the solution and presentation of business problems; the use of financial and mathematical tables; elementary probability concept.

Bus 125. QUANTITATIVE ANALYSIS
Three Credit Hours
Modern methods of quantitative analysis used in business decision-making. Linear programming. Introduction to Calculus and statistical concepts. Monte Carlo methods.

Bus 301. CORPORATION FINANCE
Three Credit Hours
Principles of financial organizations. A study of corporate securities; financial structures; financing of new and established corporations; management of corporate funds; corporate expansions, mergers and reorganizations.

Bus 303. BUSINESS LAW I: CONTRACTS
Three Credit Hours
The basic course in business law treating the nature and classification of law, the courts and court procedure and considering in some detail the law of contracts and agency.

Bus 304. BUSINESS LAW II: SALES AND NEGOTIABLE INSTRUMENTS
Three Credit Hours
A consideration of the law of sales and negotiable instruments. Prerequisite: Bus 303.

Bus 313. BUSINESS STATISTICS
Three Credit Hours
A survey of statistical methods including sampling, tabulations, graphics, averages, dispersions, index numbers, time series, trends, and simple correlations.

Bus 314. PERSONNEL MANAGEMENT
Three Credit Hours
A study of managerial principles and practices as they pertain to the total work force. Including selection, training, compensation, employee services and industrial relations.

Bus 315. PRINCIPLES OF MANAGEMENT
Three Credit Hours
A basic course in the managerial functions of planning, organizing, assembling resources and directing operations for a business.

Bus 316. PRODUCTION MANAGEMENT
Three Credit Hours
Place of management, factors underlying management decisions; product designs, physical facilities, location, layout; job evaluation, classification; plant operation, output; control of purchases and inventories. Prerequisite: Bus 315.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>BUS 320-321</td>
<td>Motion and Time Study</td>
<td>THREE</td>
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<td>See Ine 403-403L and Ine 404-404L.</td>
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<tr>
<td>BUS 324</td>
<td>Labor Legislation</td>
<td>THREE</td>
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<td></td>
<td>A study of the National Labor Relations Act as amended.</td>
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<td>BUS 327</td>
<td>Elements of Supervision</td>
<td>THREE</td>
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<td></td>
<td>A consideration of the responsibilities of the shop or department head within the field of operative management; emphasis on training, motivation, grievances and maintenance of morale.</td>
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<tr>
<td>BUS 340</td>
<td>Introduction to Data Processing</td>
<td>THREE</td>
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<td></td>
<td>A study of the basic principles of record keeping as they relate to data processing.</td>
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<tr>
<td>BUS 341</td>
<td>Principles of Systems and Procedures</td>
<td>THREE</td>
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<td></td>
<td>The object of the course is to introduce the student to the basic principles underlying systems work in business where machines data processing is employed. Prerequisite: Bus 340.</td>
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<tr>
<td>BUS 401</td>
<td>Investments</td>
<td>THREE</td>
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<td></td>
<td>A study of the basic features and principles underlying sound investments. Short term as well as long term investments, the bond and stock markets are considered.</td>
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<tr>
<td>BUS 403</td>
<td>Business Law III: The Law of Business Organization and Property</td>
<td>THREE</td>
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<tr>
<td></td>
<td>A treatment of the law of partnerships and corporations and the law of property. Prerequisite: Bus 303.</td>
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<tr>
<td>BUS 409</td>
<td>Business Communication and Report Writing</td>
<td>THREE</td>
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<td></td>
<td>The principles of letter writing and report writing are studied and applied in conformity with the best current practices in business.</td>
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<tr>
<td>BUS 412</td>
<td>Wage and Salary Administration</td>
<td>THREE</td>
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<td></td>
<td>A discussion of role of wages and salaries for individual, firm and society. Problems in determination of wage levels, structures, methods of compensation, fringe benefits, and general aspects of compensation. Prerequisite: Bus 314 or permission of instructor.</td>
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<tr>
<td>BUS 414</td>
<td>Industrial Purchasing</td>
<td>THREE</td>
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<tr>
<td></td>
<td>Principles, policies, and practices of industrial procurement. Organization and functions; purchasing procedure; quality and quantity control, supply sources; price policies, forward buying, legal aspects of purchasing procedure.</td>
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<tr>
<td>BUS 415</td>
<td>Production Methods and Control</td>
<td>THREE</td>
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<td></td>
<td>Principles and techniques used in production; current practices in production planning, routing, scheduling and dispatching; study of production standards, labor efficiency and costs; quantity and quality control. Prerequisite: Bus 316 or permission of instructor.</td>
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<tr>
<td>BUS 419</td>
<td>Collective Bargaining, Mediation and Arbitration</td>
<td>THREE</td>
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<td></td>
<td>Meaning, practices, principles and organization of collective bargaining; techniques of mediation and agencies for effecting mediation; major economic problems involved in the adjustment of labor disputes.</td>
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</table>
Bus 422. Counseling Techniques  
Functions of counselors in employee adjustment in personnel and in industrial relations; establishing counseling services, organizing and administering a program; evaluation and remedial action.

Bus 423. Business Policies and Management  
Coordination and integration of knowledge and techniques acquired in previous courses in Business Administration. The case method is used.

Bus 450. Business Management Honors Seminar  
A course in research upon a subject within the student's major. The course is open only to those who have attained a cumulative grade point average of 3.00 or above in their Sophomore and Junior years.

Bus 455. Business Ethics  
Application of philosophy in the area of employee discipline with emphasis on rights, duties, and the purpose of discipline. Examination of arbitration cases in discipline.

Chemical Engineering (CME)

Dr. Michael A. Bobal, Chairman  
Assistant Professors: Bobal, Willis  
Instructors: Bauer, Keith

CME 203. Material and Energy Balances  
An introduction to chemical engineering with lectures and problems on material and energy balances as applied to industrial processes. Prerequisites: Chm 124, Mth 216.  
First Term, Each Year

CME 305. Thermodynamics  
Development of the fundamental principles of thermodynamics, particularly with respect to chemical engineering processes. Prerequisites: Cme 203, Mth 218.  
Second Term, Each Year

CME 306. Kinetics  
Reaction kinetics, catalysis and adsorption. Prerequisite: Cme 305.  
First Term, Each Year

CME 324. Transport Phenomena I  
Topics include viscosity, shell momentum balances, isothermal equations of change, thermal conductivity, shell energy balances, non-isothermal equations of change, diffusivity, concentration profiles. Prerequisite: Mth 341. Corequisite: Cme 381.  
First Term, Each Year

CME 325. Transport Phenomena II  
Topics include friction factor, dimensionless correlations, isothermal macroscopic balances, Bernoulli's Equation, heat transfer coefficients, heat transfer correlations, heat exchangers, non-isothermal macroscopic balances. Prerequisite: Cme 324.  
Second Term, Each Year

CME 326L. Transport Phenomena Laboratory  
Experiments cover viscosity, velocity profiles, temperature profiles, heat transfer coefficients, diffusivity, compressibility factors for gases. Prerequisite: Cme 324. Corequisite: Cme 325.  
Second Term, Each Year
CME 381. APPLIED MATHEMATICS FOR CHEMICAL ENGINEERS  THREE CREDIT HOURS
This course is designed to supply the mathematics to support transport phenomena and process control. Topics include vector calculus, solution of partial differential equations and Laplace transforms. Prerequisite: Mth 341.  
First Term, Each Year

CME 411. UNIT OPERATIONS  THREE CREDIT HOURS
Topics include diffusivity, humidity and air conditioning, multicomponent equations of change, equilibrium stagewise contacts, McCabe-Thiele and Ponchon-Savarit methods, filtration and evaporation. Prerequisites: Cme 324, Cme 325.  
First Term, Each Year

CME 413L. UNIT OPERATIONS LABORATORY  TWO CREDIT HOURS
This course is designed to acquaint the students with Unit Operations equipment and its utilization. Prerequisite: Cme 324.  
First Term, Each Year

CME 414L. UNIT OPERATIONS LABORATORY Continuation of Cme 413L. Prerequisite: Cme 325.  
Second Term, Each Year

CME 421. SEMINAR  ONE CREDIT HOUR
Presentation of subjects relative to industrial practice. Attendance required by all Chemical Engineering Junior and Senior students, with only Seniors registering for credit.

CME 430. CHEMICAL ENGINEERING DESIGN  THREE CREDIT HOURS
Study of the principles of process development, plant design and economics. Prerequisite: Cme 411.  
Second Term, Each Year

CME 452. PROCESS CONTROL  THREE CREDIT HOURS
Topics include block diagrams, system transfer functions, feedback, transient and steady state response, root locus method, frequency response, Bode diagrams, analog computer. Prerequisite: Cme 381.  
First Term, Each Year

CME 453L. PROCESS CONTROL LABORATORY  ONE CREDIT HOUR
Experiments cover analog computer programming, analog solution of differential equations, frequency response, Bode diagrams, computer simulation, open and closed loop system response. Report writing emphasized. Prerequisites: Cme 452, Ele 322.  
Second Term, Each Year

Chemical Engineering Electives

CME 461. ELEMENTS OF NUCLEAR ENGINEERING  TWO CREDIT HOURS
Introduction to the application of engineering principles to the field of nuclear science.

CME 499. SPECIAL PROBLEMS IN CHEMICAL ENGINEERING  TWO TO SIX CREDIT HOURS
Particular assignments to be arranged and approved by Chairman of the Department. Credit hours to be determined.
Chemistry (CHM)

Dr. John J. Lucier, S.M., Chairman

Professors: Chudd, Lucier, Michaelis, Pappalardo
Associate Professors: Eveslage, Wottle
Assistant Professors: Karl, O'Brien, Steed, Vance, Walsh

Part-time Instructors: Becker, DeSando, Hart, B. O'Brien, March, Semmelman

CHM 110. General Chemistry
Fundamental principles of chemistry including a brief treatment of organic chemistry. Three class periods each week.

CHM 110L. General Chemistry Laboratory
Course to accompany Chm 110 lecture. One two-hour laboratory period per week.

CHM 123-124. General Chemistry
A comprehensive treatment of the fundamentals of general chemistry. Three class periods per week. Prerequisite: high school Chemistry.

CHM 123L-124L. General Chemistry Laboratory
Course to accompany Chm 123-124 lecture. The laboratory work is devoted to semimicro qualitative analysis. One three-hour laboratory period per week.

CHM 200. Organic Chemistry
A brief course in the fundamentals of Organic Chemistry. Three class periods each week. Prerequisite: Chm 110 or Chm 123.

CHM 200L. Organic Chemistry Laboratory
Course to accompany Chm 200 lecture. One two-hour period per week.

CHM 201. Quantitative Analysis
A course intended for premedical, predental, and medical technology students. Two class periods per week. Prerequisite: Chm 124.
CHM 201L. Quantitative Analysis Laboratory
Course to accompany Chm 201 lecture. One four-hour laboratory period per week.

CHM 215. Quantitative Analysis
A course for chemistry majors and chemical engineers. The fundamental theory and techniques of gravimetric and volumetric analysis is treated. Two class periods per week. Prerequisite: Chm 124, one semester of college mathematics.  
First Term, Each Year

CHM 215L. Quantitative Analysis Laboratory
Course to accompany Chm 215 lecture. Two three-hour laboratory periods per week.

CHM 217L. Quantitative Analysis Laboratory
A short course for chemical engineers. To accompany Chm 215 lecture. One three-hour laboratory period per week.  
First Term, Each Year

CHM 302. Physical Chemistry
A short course especially designed for premedical, predental, or biology majors. Three lectures per week. Prerequisite: Chm 124.  
Second Term, Each Year

CHM 303-304. Physical Chemistry
For chemistry majors and chemical engineers. Three lecture hours each week. Prerequisite: Chm 215 or equivalent. Corequisite: Mth 218.

CHM 303L-304L. Physical Chemistry Laboratory
Course to accompany Chm 303 lecture. One three-hour laboratory period each week.

CHM 308. Chemical Literature
The use of chemical literature, indexing methods, and patent procedure. Prerequisite: Ger 101-102.  
Second Term, Each Year

CHM 313-314. Organic Chemistry
This course is designed for premedical, predental, and medical technology students. A strong grounding in the fundamentals of Organic Chemistry is given. Three class periods per week. Prerequisite: Chm 124.

CHM 313L-314L. Organic Chemistry Laboratory
Course to accompany Chm 313-314 lecture. One three-hour laboratory period each week.

CHM 315-316. Organic Chemistry
A study of aliphatic, aromatic, and heterocyclic compounds, including typical preparations, and basic techniques of organic chemistry; for chemistry majors and chemical engineers. Prerequisite: Chm 215.

CHM 315L-316L. Organic Chemistry Laboratory
Course to accompany Chm 315-316. Two three-hour laboratory periods each week. Prerequisite: Chm 215.

CHM 400. Biochemistry
A one semester course for Home Economics students. Prerequisite: Chm 200 or equivalent.  
First Term, 1966-1967
Chm 400L course to accompany Chm 400 lecture. One three-hour laboratory period per week.

Chm 404. Special Topics in Physical Chemistry
A thorough treatment is given to certain topics surveyed in Chm 303-304 such as macromolecules, spectroscopy, photochemistry and radiation chemistry. Prerequisite: Chm 304.

Chm 405. Qualitative Organic Analysis
A systematic study of the reactions of functional groups and of the physical properties which lead to the identification of organic compounds. One class period per week. Prerequisite: Chm 315-316, or Chm 313-314.

Chm 405L. Qualitative Organic Analysis Laboratory
Course to accompany Chm 405 lecture. Two three-hour laboratory periods per week.

Chm 412. Intermediate Organic Chemistry
This course provides an understanding of the modern theory of organic chemistry with emphasis on reaction mechanisms. Prerequisite: Senior standing.

Chm 415. Analytical Chemistry
Methods of analysis based on modern instrumentation. Prerequisite: Chm 215, 215L, 304.

Chm 415L. Analytical Chemistry Laboratory
This course accompanies Chm 415. Two three-hour laboratory sessions each week. Prerequisites: Chm 215, 215L, 304.
CHM 416. EXPERIMENTAL INORGANIC CHEMISTRY
The preparation, separation, and characterization of inorganic compounds; special emphasis on modern techniques of coordination chemistry. One lecture hour each week.
Prerequisite: Chm 415.
Second Term, Each Year

CHM 416L. INORGANIC SYNTHESIS LABORATORY
The laboratory course which accompanies Chm 416. One four-hour lab each week.
Corequisite: Chm 416.
Second Term, Each Year

CHM 417. INORGANIC CHEMISTRY
Electron distribution in atoms, nature of the chemical bond, periodicity, nucleus and its reactions, coordination compounds. Prerequisite: Chm 303-304.
Second Term, Each Year

CHM 420. BIOCHEMISTRY
A course dealing with the fundamentals of biochemistry and designed for science students other than chemistry majors. Prerequisite: Chm 314 or 316.
Second Term, Each Year

CHM 497. SEMINAR
Required of all chemistry majors. One meeting each week.
First Term, Each Year

CHM 499. RESEARCH
An elective for Chemistry majors. Permission of Chairman of Department required.
Prerequisite: Senior standing.

Civil Engineering and Engineering Mechanics

Seymour J. Ryckman, Chairman
Professors: Chamberlain, Driscoll, Ryckman
Assistant Professors: Kraft, Payne
Instructor: Weiss

Civil Engineering (CIE)

CIE 205L. SURVEYING FIELD PRACTICE
Field work and computation in topography, highway surveying, triangulation, level net, celestial observations, evaluation of errors, and preparation of plans. Five eight-hour days a week for three weeks. Prerequisite: Cie 208.
Summer

CIE 207. SURVEYING I
Theory of Measurements, computation and instrumentation. Boundary and construction surveys, celestial observations, triangulation and level net adjustments, elementary geodesy, and state coordinate systems. Corequisite: Mth 216.
First Term, Each Year

CIE 208. SURVEYING II
Study of photogrammetry, circular and spiral curves, vertical curves, grade lines, earthwork and mass diagram, slope and grade stakes, contour grading, and use of aerial photographs. Prerequisite: Cie 207.
Second Term, Each Year
CIE 213. Plane Table Surveying  
General Principles of Surveying with emphasis on plane table mapping. Designed for students in Geology. Prerequisite: Mth 117 or Mth 122.  
Second Term, 1966-1967

CIE 213L. Plane Table Surveying Laboratory  
Field and laboratory work in application of principles of CIE 213. Corequisite: CIE 213.  
Second Term, 1966-1967

CIE 306. Theory of Structures  
The analytical and graphical methods of stress determination in statically determinate structures, together with a study of influence lines. Prerequisite: Egm 303.  
First Term, Each Year

CIE 307. Hydraulics  
First Term, Each Year

CIE 307L. Hydraulics Laboratory  
First Term, Each Year

CIE 310L. Civil Engineering Laboratory  
Experiments and studies relating the engineering properties of certain materials to their fundamental nature and composition. Corequisite: Egm 303.  
Second Term, Each Year

CIE 312. Soil Mechanics  
Second Term, Each Year

CIE 312L. Soil Mechanics Laboratory  
Laboratory test to evaluate and identify soil properties for engineering purposes. Design problems are included. Corequisite: CIE 312.  
Second Term, Each Year

CIE 402. Structural Design II  
Concentrated loads on slabs, beams; composite construction, rigid frames, flat slabs as rigid frames, plastic design of rectangular and tee beams. Prerequisites: CIE 407, CIE 415.  
Second Term, Each Year

CIE 402L. Structural Design Laboratory II  
Second Term, Each Year

CIE 405. Highway Engineering  
Fundamentals of highway design, construction maintenance, and economics with illustrative practical problems. Prerequisites: CIE 208, CIE 310L.  
First Term, Each Year

CIE 406. Indeterminate Structures  
The determination of stresses and deflections of statically indeterminate frames and trusses by the classic and modern methods, including Castigliano's Theorem, least work, moment and shear distribution. Prerequisite: CIE 407.  
Second Term, Each Year
CIE 407. REINFORCED CONCRETE
The first course in the theory and design of reinforced concrete structures; the study of earth pressure; design of retaining walls and footings. Prerequisite: Cie 306.

First Term, Each Year

CIE 408. SEMINAR
Practice in the presentation and discussion of papers; lectures by staff and prominent engineers. Attendance required by all Civil Engineering Sophomore, Junior, and Senior students with only Seniors registering for credit.

One Credit Hour

CIE 409. SOIL MECHANICS
A study of the physical properties of soil as an engineering material and an introduction to basic foundation engineering problems. Corequisites: Cie 409L, Egm 304.

First Term, Each Year

CIE 409L. SOIL MECHANICS LABORATORY
Specific gravity, Atterberg limits, grading, permeability, consolidation, triaxial, direct shear, optimum moisture content and field sampling. Corequisite: Cie 409.

First Term, Each Year

CIE 415. STRUCTURAL DESIGN I
A study of rolled beams, plate girders, columns and steel trusses with emphasis on typical connections and splices both riveted and welded, together with assigned problems. Prerequisite: Cie 306. Corequisite: Egm 304.

First Term, Each Year

CIE 433. SANITARY ENGINEERING I
An integrated study of the principles of water sanitation, water supply, stream pollution abatement and waste water disposal systems. Prerequisites: Cie 307, Cie 307L.

First Term, Each Year

CIE 434. SANITARY ENGINEERING II
A continuation of Cie 433 and with brief considerations of municipal and rural sanitation. Prerequisite: Cie 433.

Second Term, Each Year

Civil Engineering Electives

CIE 421. CONSTRUCTION ENGINEERING
Organization, planning and control of construction projects. Includes: a study of the use of machinery, economics of equipment, methods, materials, estimates, cost controls, and fundamentals of Cpm and Pert.

Three Credit Hours

CIE 422. MATERIALS OF CONSTRUCTION
A comprehensive study of the properties of timber, stone, clay products, wrought iron, steel, cast iron, non-ferrous alloy and plastics. Prerequisite: Cie 310L.

Three Credit Hours

CIE 499. SPECIAL PROBLEMS IN CIVIL ENGINEERING
Particular assignments to be arranged and approved by Chairman of the Department. Credit hours to be determined.

Two to Six Credit Hours
Engineering Mechanics (Egm)

Egm 202. Statics THREE CREDIT HOURS
The principles of mechanics; force systems, resultants and equilibrium; centroids and centers of gravity; application to trusses, frames, and beams; friction; virtual work; moments of inertia. Prerequisite: Phy 206. Corequisite: Mth 218.

Egm 301. Dynamics THREE CREDIT HOURS
Kinematics, including translation, rotation, plane motion, and relative motion; kinetics of particles and bodies by the methods of force-mass-acceleration, work-energy, and impulse-momentum. Prerequisite: Egm 202.

Egm 303. Strength of Materials THREE CREDIT HOURS
The study of stresses and strains in tension, compression, shear, flexure and torsion; riveted and welded joints; shear and moment diagrams; stresses and deflections of beams and analysis of columns. Prerequisite: Egm 202.

Egm 303L. Strength of Materials Laboratory ONE CREDIT HOUR

Egm 304. Advanced Strength of Materials THREE CREDIT HOURS
Stresses and strains at a point; shear center; unsymmetrical bending; curved beams; approximate analysis of flat plates; torsion of non-circular bars; thick-walled cylinders. Prerequisite: Egm 303.

Communication Arts

George C. Biersack, Chairman
Associate Professor: Biersack
Assistant Professors: Gilvary, Mullins
Instructors: Devine, McGlade, Clark, Harwood, Johenning, Youngman
Part-time Instructors: Vlahos, Moore

The course requirement for Communication Arts majors is 24 upper level credit hours distributed as follows:

FOR GENERAL MAJOR IN COMMUNICATION ARTS:
(1) Speech 101 and 200 (Introduction to Mass Communications).
(2) At least one upper level course in each of the following: Speech, Theatre, Broadcasting, Journalism, and Allied Areas, and electives in the field selected through consultation with the Department Chairman.
(3) Seminar in Communication Arts.

FOR CONCENTRATED MAJOR IN COMMUNICATION ARTS:
(1) Speech 101 and appropriate 200 level course.
(2) 21 credit hours of upper level courses with a minimum of 15 hours in Speech, Theatre, or Broadcasting-Journalism.
(3) Seminar in Communication Arts.
Minors in Communication Arts must have Spe 101 plus 12 hours of upper level courses selected through consultation with the department counselors. The department sponsors three co-curricular activities, the University Players, the University Debaters, and the Flyer News.

**SPEECH**

**Spe 101. Fundamentals of Effective Speaking**
Three credit hours
Introductory course in fundamental skills of speaking. Self-confidence is developed through speaking opportunities, with special attention given to poise, vocal variety, physical animation, and the communication of ideas.

**Spe 201. Speaking Techniques**
Three credit hours
Covers area of oral communication in professional situations. Adapts principles of effective speaking to specific audiences and occasions. Student prepares and delivers informational, problem-solving, good-will, and special occasion speeches.

**Spe 300. Voice and Diction**
Three credit hours
Course treating the four phases of speech production: proper breathing, phonation, resonance, and articulation. Projection, quality, and clarity of speech are emphasized. Student's voice is analyzed through tape recordings.

**Spe 301. Speech Composition**
Three credit hours
Study of speech structure and composition. Critical analysis of model speeches, in conjunction with the preparation and presentation of original speeches on current public questions.

**Spe 302. Fundamentals of Debate**
Three credit hours
Application of the principles of argument through extensive practice in several forms of debate. Consideration of analysis, evidence, reasoning, inference and fallacy.

**Spe 307. Conference and Discussion**
Three credit hours
The guiding principles used by participants and leaders in the preparation and conducting of conferences and discussions. Exploratory, problem-solving, and policy-making conferences are staged.

**Spe 310. Interpretative Reading I**
Three credit hours
Oral interpretation of poetry and prose. Combines a study of vocal modulations, pitch, inflection, and tone color with intellectual and emotional analysis of selections to develop a deeper appreciation of literature.

**Spe 312. Persuasion**
Three credit hours
Analysis of the motivations which lead to belief and action of individuals and audiences. Study in the techniques of achieving persuasive purposes. Delivery of speeches in the application of the theory.

**Spe 320. Interpretative Reading II**
Three credit hours
A continuation of Spe 310, with a deeper penetration into the field of oral interpretation. Individual problems are given more particular attention. Impromptu reading. Prerequisite: Spe 310.
Spe 400. Speech Correction  
Investigates the theory of speech and hearing handicaps in elementary and secondary school pupils. Examples of such defects are explored clinically and methods of correction applied. Includes demonstrations with children.

Spe 401. Public Speaking II  
A more intensive development of the goals sought in Spe 301. Students are required to demonstrate facility in holding audience attention through longer speeches. Prerequisite: Spe 201 or permission.

Spe 402. Forensics  
A course designed to employ the values inherent in competitive speaking, and to relate those values in an alert, aggressive citizenship. Classroom experience in the various forms of debate, discussion, original oratory.  
First Term

Spe 420. Speech Methods in the Schools  
A course to prepare beginning teachers for speech work on the high school level. Demonstrates how to arrange syllabi and prepare and administer assignments that will enrich speech training classes.  
Second Term

Spe 430. Seminar in the Speech Arts  
Individual research and report on a problem in the field of speech, theater, or broadcasting. Students will do research in the area of his interest. Communication Arts majors or minors only, with permission.  
Second Term, Each Year

THEATER

All Communication Arts majors with an emphasis in Drama are encouraged to participate in U.D. Players productions.

Spe 204. Introduction to the Theater  
Analyzes the nature of theater, its origin and development, from the standpoint of the play, the physical theater, and its place in our culture.  
Second Term, Each Year

Spe 304. Theatre Production Workshop  
Principles and practical application of theatre production: including play analysis, stagecraft, lighting, stage blocking, and rehearsal process. Students work on selected plays and with full stage and shop facilities.  
Second Term, Each Year

Spe 313. Acting I  
Affords study and practice in the fundamentals of acting, with stress upon the physical, mental, and emotional background of characterization. Prerequisite: 204 or permission.  
First Term, Each Year

Spe 323. Acting II  
A further development and practice of fundamental principles set down in the elementary course in acting, Spe 313. Emphasis is placed on more specialized character portrayal. Prerequisite: Spe 313, or with permission.  
Second Term

Spe 414. Stagecraft and Lighting  
Practical applications of stage lighting. Includes construction of scenery and plotting of lighting charts for specific plays. Prerequisite: Spe 204.  
First Term
SPE 415. History of the Theater I
A survey of the history of theater from Aeschylus to Miller, with emphasis on plays, playwrights, and play productions that lead up to the representational theater of today. Prerequisite: SPE 204 or permission. 

First Term

SPE 424. Play Directing
Treats the basic functions of a Director in the production of a play; blocking of scenes, timing, characterization, and continuity. Includes all aspects of production and direction of a one-act play. 

Second Term

SPE 425. History of the Theater II
Plays, players, and movements in recent and current theater, including realistic and non-realistic styles. Function of community theater and commercial and professional theater. Prerequisite: SPE 204 or permission. 

BROADCASTING

SPE 306. Radio Fundamentals
A workshop course in microphonic technique as applied to straight announcing, commercials, and newscasting. Development of articulation and tone for broadcasting purposes is emphasized. Station organization is discussed. 

First Term, Each Year

SPE 309. Fundamentals of Television
Principles and practices of television broadcasting, studio layout, equipment, personnel, organization of channels, and networks, educational and closed circuit television. Students participate in various programming projects. 

Second Term, Each Year

SPE 316. Radio Workshop
Designed to develop voice, articulation, and reading skills. Exercises in microphone techniques. Development of radio stations' staff requirements and responsibilities. Project shows are taped for analysis. 

Second Term

SPE 409. Television Production
Intensive practice in preparation and production of TV programs. Camera technique, floor set-ups, and direction of crews and talent demonstrated through actual participation in TV shows. Prerequisite: SPE 309, or with permission. 

First Term, Each Year

JOURNALISM

Majors in Journalism must take JRN 200 plus 15 semester hours in JRN 300-400 courses, plus 9 semester hours from 300-400 offerings in the Department of English, selected in consultation with the Chairman. Minors in Journalism must take JRN 200 plus 12 semester hours from JRN 300-400 courses.

JRN 200. Introduction to Mass Communications Media
Covers nature and purpose of mass communicative field. Emphasis on newspapers, television and radio, occupational opportunities, organizational structure of modern newspaper and news facets of television and radio. 

Second Term, Each Year

JRN 300. Reporting and Writing for News Media
Determining news values. Structure of a news story. Techniques of gathering news for all media and how this material is applied to newspapers, television and radio. Prerequisite: JRN 200. 

First Term
COMMUNICATION ARTS

JRN 301. ADVANCED NEWS STORY WRITING  THREE CREDIT HOURS
Advanced reporting and news writing. Analysis of feature story techniques and structure in all areas, especially columns and specialized reporting. Prerequisites: Jrn 200 and 300.

JRN 302. THE LAW AND NEWS MEDIA  THREE CREDIT HOURS

JRN 400. EDITING AND COPYREADING  THREE CREDIT HOURS
The copy desk on large and small newspapers, editing, headline writing, page makeup, use of pictures and type. Prerequisite: Jrn 300 or permission of instructor.  First Term

JRN 401. EDITORIAL WRITING  THREE CREDIT HOURS
Study of the methods used in preparing and writing newspaper editorials—editorial conferences to discuss topics, research necessary.  Second Term

JRN 404. NEWSPAPER MANAGEMENT PROBLEMS  THREE CREDIT HOURS
Non-editorial operations—problems of business, circulation, advertising and printing departments as they affect operations of the news department. Special emphasis on small dailies and weeklies.

JRN 430. HISTORY OF JOURNALISM  THREE CREDIT HOURS
Critical study of development of the English language press. Emphasis on the American press and its role in political and economic progress of this country. The outstanding editors and their newspapers.

ALLIED AREAS

COM 301. PRODUCTION OF AUDIO-VISUAL AIDS  TWO CREDIT HOURS
Production of various types of audio-visual aids used in communications. Designing and producing audio-visual aids will be required.

COM 302. USES OF AUDIO-VISUAL AIDS  TWO CREDIT HOURS
Investigates areas of communication where audio-visual aids are used to great advantage. Deals primarily with developing techniques and skills in using audio-visual aids.

COM 303. FREE-LANCE WRITING  THREE CREDIT HOURS
Types of free-lance articles. Analysis of literary markets. Manuscript form and submission methods. Magazine and book publishing. Completion and submission of one salable article required for credit.  First Term

COM 304. ADVERTISING  THREE CREDIT HOURS
Nature and functions of advertising; preparation of layouts, writing of copy; selection and evaluation of media. Coordination of advertising with other marketing efforts. Social implications of advertising. (See Mkt 421.)

COM 305. PROPAGANDA ANALYSIS  THREE CREDIT HOURS
Use and abuse of propaganda. Editorial persuasion. Propaganda devices and techniques. An application of the principles of Aristotelian logic to the field of mass communication.  Second Term
COM 306. REPORT WRITING
The principles of letter writing and report writing are studied and applied in conformity with the best current practices in business. (See Bus 409.)

COM 307. TECHNICAL WRITING

COM 401. PUBLICITY AND PUBLIC RELATIONS
For students (business, education, personnel management, etc.) who expect to direct publicity campaigns or write news releases in their future work. Explains nature, organization, and problems of newspaper publishing.

Computer Science (CPS)

Bro. Thomas A. Schoen, S.M., Acting Chairman
Assistant Professors: Cada, Dwyer, Schoen
Instructor: Gottschall
Part-time Instructor: McAdams

The ALGOL 60 language is the standard used in advanced Computer Science courses. The FORTRAN course (CPS 233) is offered primarily for engineering and other students who do not plan to concentrate in Computer Science. Several informal lectures will be arranged each term, however, to enable students who have mastered either ALGOL or FORTRAN to gain some proficiency in the other language. Computer Science majors will be expected to have the ability to program in FORTRAN also by the end of their sophomore year.

CPS 203. DATA PROCESSING SYSTEMS
COBOL and other languages applicable to data processing problems; magnetic tape systems; applications requiring use of peripheral equipment. Corequisite: Mth 117 or equivalent.

CPS 233. FORTRAN PROGRAMMING
General programming techniques; grammar and syntax of the FORTRAN IV compiler; programming mathematical and engineering problems in FORTRAN. Corequisite: Mth 117 or equivalent.

CPS 241. ALGOL PROGRAMMING
General programming techniques; grammar and syntax of the ALGOL 60 compiler; programming mathematical and scientific problems in ALGOL. Corequisite: Mth 117 or equivalent.

CPS 314. ELECTRONICS FOR SCIENTISTS
Terminal behavior of vacuum tube and semi-conductor devices; application to basic rectifier, amplifier, oscillator and control circuits; incorporation of these circuits in measuring and control devices. Prerequisite: Mth 301 or 341, Phy 207; Corequisite: CPS 314L.
Cps 314L. Electronics for Scientists Laboratory

Laboratory construction and testing of the basic vacuum tube and solid-state electronic circuits. Corequisite: Cps 314.

Cps 345. Programming Languages

Programming in machine language and with an assembler; input-output techniques; introductory topics in the construction of compilers. Prerequisite: Cps 233 or 241.

Cps 351. Numerical Analysis

Discrete functions; interpolation and approximation theory, including Chebyshev, trigonometric, and least squares methods; solution of equations. Prerequisite: Cps 233 or 241, Mth 301 or 341.

Cps 381. Applied Boolean Algebra

Boolean algebra as an axiomatic mathematical system; applications to set theory, logic, switching circuits, and logical design. Prerequisite: Cps 233 or 241; Corequisite: Mth 218.

Cps 399. Special Problems

Current state of the art; research areas in Computer Science; critical evaluation. May be taken more than once for additional credit. Prerequisite: consent of instructor.

By arrangement

Cps 414. Advanced Electronics for Scientists

High frequency techniques, modulation and detection, pulse generators, special circuits; application to counters, computer circuits, and experimental instrumentation and control problems. Prerequisite: Cps 314; Corequisite: Cps 414L. Second Term, Each Year
Cps 414L. Advanced Electronics for Scientists Laboratory One Credit Hour
Individual student projects in the electronic instrumentation of problems in the physical, biological, and computer sciences. Corequisite: Cps 414. Second Term, Each Year

Cps 441-442. Advanced Programming Six Credit Hours
Analysis of compilers and their construction; programming techniques discussed in the current literature; advanced computer applications in both mathematical and non-numeric areas. Prerequisite: Cps 345.

Cps 455-456. Advanced Numerical Analysis Six Credit Hours
Quadrature methods and the numerical solution of ordinary differential equations; matrices and large scale linear systems; norms and spectral radii of matrices; modern iterative matrix methods, including the successive overrelaxation method; numerical solution of partial differential equations. Prerequisite: Cps 351.

Cps 481. Mathematical Logic Three Credit Hours
Formalization of propositional calculus, first order theories including predicate calculi, formal number theory, recursive functions, Goedel's incompleteness theorem. Prerequisite: Cps 381 or Mth 390. First Term, Each Year

Cps 482. Automata Theory Three Credit Hours
Finite automata, sequential machines, Turing machines, computability, existence of self-reproducing machines. Prerequisite: Cps 481. Second Term, Each Year

Cps 499. Special Topics One to Three Credit Hours
Topics in systems design, applied logic design, probabilistic and self-organizing systems, pattern recognition, man-machine communication, artificial intelligence. May be taken more than once for additional credit. Prerequisite: consent of instructor. By arrangement

Economics (Eco)

Charles W. Whalen, Jr., Chairman
Professors: McGovern, O'Leary, Whalen
Associate Professor: Panickavede
Assistant Professor: May
Instructor: Schaede
Part-time Instructors: Cleland, Dickison, McClellan, O'Connell, Schill, Suttmann, Taylor, Vera

Eco 201-202 are prerequisites for all advanced courses in Economics. Minors are required to take Eco 340, 341, 342, and one elective.

Eco 201. Principles of Economics I Three Credit Hours
Basic economic principles. Analyzes American economy—business organization, industrial relations, the economic role of government, money and banking in the productive process, determination of aggregate level of national income and employment.

Eco 202. Principles of Economics II Three Credit Hours
Examines pricing of production factors under conditions of perfect and imperfect competition. Considers distribution of income, principles of international trade, problems of economic development, and alternative economic systems.
ECONOMICS 175

**Eco 340. Micro Economic Analysis**
Three Credit Hours
Analyzes theory of consumer behavior; production theory; equilibrium of the firm; market structures; monopoly, monopolistic competition, and oligopoly; allocation of resources; distribution of income.

**Eco 341. Macro Economic Analysis**
Three Credit Hours
National income and determination of level of income and employment. Keynesian vs. classical systems. Role of government in economy; foreign trade and price levels; theory of economic growth; Keynesian and post-Keynesian theory.

**Eco 342. Money, Banking, and Monetary Policy**
Three Credit Hours
Considers principles of money and monetary systems; commercial banking and role of the Federal Reserve System; monetary theory and policy; the mechanism of international payments.

**Eco 343. Public Finance and Taxation**
Three Credit Hours
Studies major types of taxation and expenditure problems of local, state, and especially federal government. Emphasizes shifting, incidence, equity, and policy of different types of taxes together with fiscal administration and public debt.

**Eco 346. International Trade**
Three Credit Hours
Studies international trade theory, issues, and problems. Examines national income and trade, foreign exchange, balance of payments, trade barriers, international economic organizations, and recent movements toward free trade.

**Eco 370. Labor Relations**
Three Credit Hours
Considers labor problems of modern industrial society. Examines the history, structure, and functions of trade unions and employer organizations. Analyzes law of trade unionism; collective bargaining; and industrial conflict.

**Eco 371. Labor Economics**
Three Credit Hours
Primarily for Economics majors; sequel to Eco 370. Considers wage theory, determinants of wage rates and employment. Examines union policy, economic stability and growth. Analyzes the economics of private governmental welfare and security programs.

**Eco 372. Economics of Social Security**
Three Credit Hours
Nature and causes of economic insecurity and social adjustment to it. Analyzes economic effects of unemployment, disability, substandard working conditions, old age and death, and the evolution of institutional approaches to these problems.

**Eco 430. History of Economic Thought**
Three Credit Hours
Surveys early philosophers. Examines various schools and systems of economic thought (Mercantilists, Physiocrats, Classical, Historicals, Marginalists, Neo-classicals, Keynesians) and current economic theories with emphasis upon American developments.

**Eco 440. Business Cycles and Forecasting**
Three Credit Hours

**Eco 450. Comparative Economic Systems**
Three Credit Hours
Analyzes principal types of economic systems in the world today. Stresses their develop-
ment in the United Kingdom, the Soviet Union, China, and India. Contrasts foreign systems with American capitalism.

**Eco 451. The Soviet Economy**
**THREE CREDIT HOURS**
Analyzes Soviet methods of resource allocation and characteristics of its pricing system. Surveys Soviet economic institutions, determinants and measurement of output, distribution of income, and international relations.

**Eco 460. Economic Development and Growth**
**THREE CREDIT HOURS**
Inquires into the nature of economic growth in both pre-industrial and industrial societies within their individual institutional framework. Analyzes theories of growth, domestic and international policy issues.

**Eco 480. Current Economic Problems**
**THREE CREDIT HOURS**
Analyzes current economic issues including the problems of agriculture, employment and economic growth, inflation, budgetary policy, public debt, international balance of payments, and underdeveloped economies.

**Eco 499. Special Problems in Economics**
**TWO TO SIX CREDIT HOURS**
Particular assignments to be arranged and approved by chairman of the department. Credit hours to be determined.

**Eco 499W. Special Problems in Economics Workshop**
**TWO TO SIX CREDIT HOURS**
Special workshop assignments to be arranged and approved by chairman of the department. Credit hours to be determined.

### Education

**Foundations of Education (EdF)**

Sr. M. Audrey Bourgeois, *Acting Chairman*

*Professors:* Barrett, Elbert, Panzer

*Associate Professors:* Bourgeois, Riley

*Assistant Professors:* Anderson, Emling

*Part-time Instructors:* Rogus, Wening

**EdF 100. Orientation**
**ONE CREDIT HOUR**
Deals with the total problem of adjustment to the college campus. Second half of course deals with orientation to the teaching profession. *First Term, Each Year*

**EdF 109. Moral and Spiritual Values**
**THREE CREDIT HOURS**
A study of the basic religious and moral values inherent in the American tradition. Stresses the importance of such values for the teacher and emphasizes their role as integrating factor in the educative process.

**EdF 198. Nature of the Learner**
**THREE CREDIT HOURS**
General psychology emphasizing concepts from the standpoint of both science and philosophy. Focuses attention on fundamental equipment of man as a learner. (A combination of Psy 201 and Phl 207 may substitute.)
EDF 207. EDUCATIONAL PSYCHOLOGY I: GROWTH & DEVELOPMENT  THREE CREDIT HOURS
Designed to study growth and development in childhood and adolescence. The knowledge gained will be made relevant for successful classroom practice. Prerequisite: EDF 198 or equivalent.

EDF 208. EDUCATIONAL PSYCHOLOGY II: THE LEARNING PROCESS  THREE CREDIT HOURS
The aim of this course is two-fold: (1) to treat the learning process; and (2) to treat topics dealing with factors which vitally affect the learning process. Prerequisites: EDF 198, EDF 207 or equivalents.

EDF 419. PHILOSOPHY OF EDUCATION  THREE CREDIT HOURS
By interrelating the principal concepts pertaining to man, society, and the school, the student should develop a constructive philosophy of education. Accredited in Philosophy. Prerequisite: EDF 198 or equivalents.

EDF 423. PHILOSOPHY OF EDUCATION: CATHOLIC  THREE CREDIT HOURS
The educand, the aims and agencies of education, the philosophy of the curriculum are studied in the light of Catholic theology and philosophy. The course may be taken in lieu of EDF 419. Prerequisite: EDF 198 or equivalent.

EDF 440. HONORS SEMINAR  TWO CREDIT HOURS
Concerns itself with the great issues and problems of education. Offered as an elective for junior and senior members of the Education Honor Society.  Second Term, Each Year

Elementary Education (EDE)

Dr. Simon Chavez, Chairman
Professors: Chavez, O'Donnell
Assistant Professors: Klein, Klosterman, Mathews, Waters
Part-time Instructors: Beitzel, Blackford, Bruno, Guinan, Miles, Schnelle, Strahler

EDE 219. KINDERGARTEN INSTRUCTION  TWO CREDIT HOURS
Deals both with the theory and the necessary practical skills to meet the needs of children in the Kindergarten. Observation in Kindergarten is included. Required for Kindergarten-Primary certification.  First Term, Each Year

EDE 303. READING IN THE ELEMENTARY SCHOOL  THREE CREDIT HOURS
Treats reading-readiness, experience reading, methods of meeting individual differences, functional reading, diagnosis in reading, and remedial measures. Observation of teaching. Prerequisite: EDF 207 or Psy 306.  Evening

EDE 320. READING AND LANGUAGE ARTS IN ELEMENTARY SCHOOL  FIVE CREDIT HOURS
An integrated language arts course with reading as its core subject. Acquisition of a certificate in handwriting required. One half day per week devoted to field experience. Prerequisite: EDF 207 or Psy 306.  Evening

EDE 324. LANGUAGE IN THE ELEMENTARY SCHOOL  TWO CREDIT HOURS
Stresses the expressional phase of elementary school language, including oral and written expression, spelling and handwriting. Also treats instructional methods. Acquisition of certificate in handwriting is required. Prerequisite: EDF 303.  Evening and Summer
EdE 325. Social Studies in the Elementary School
Function of the social studies in the elementary school; appraisal of teaching procedures in the field; formulation of definite principles; testing the results of instruction. Prerequisite: EdF 208.

EdE 330. Religion in CCD (Elementary)
Principles and techniques for the effective teaching of religion. Prepares the student to teach Catholic pupils on released time from the public elementary schools. Prerequisite: Four semester hours of Theology.

EdE 333. Religious Instruction in CCD Program
Designed to prepare the student to teach Catholic pupils on released time from the public elementary schools. Prerequisite: Eight semester hours of Theology.

EdE 350. The Elementary School: Purposes and Practices
Deals with objectives, organization, curricula, community relationships, and the practical aspects of teaching in the elementary schools. Visitation of schools for observation. Prerequisites: EdF 207, EdF 208 or equivalents.

EdE 352. The Elementary School: Parochial

EdE 400. Religion in the Elementary School
Methods and materials of instruction; employment of the principles of adaptation to the practical needs of elementary school children in the Catholic schools. Observation of teaching. Prerequisites: EdF 207, EdF 208.

EdE 403. Mathematics in the Elementary School
Deals with distribution of content according to grade levels; methods of presentation; diagnosis of number difficulties; remedial instruction; testing. Directed observation of teaching. Prerequisite: Mth 141-142.

EdE 412. Student Teaching—Summer
Supervised teaching in actual classroom situations during the summer period. A seminar on campus twice a week. Restricted to students who have had previous full-time teaching experience. Prerequisite: Special permission of the Dean.

EdE 413. Student Teaching (Elementary)
Consists of teaching in actual classroom situations for full semester under close supervision. A seminar is held once a week. Prerequisite: Formal admission to student teaching a full semester in advance; also EdE 320, EdE 350 or 352, and EdE 403.

EdE 491. Visual and Other Sensory Aids in Education
Studies the aims and psychological bases of the use of visual and other sensory aids in the classroom. Includes demonstration lessons applying sensory methods to the subjects of the curriculum. Involves laboratory experience. Second Term, 1966-1967

EdE 451. Advanced Kindergarten-Primary Instruction
Deals with problems and practices as they relate to the whole school program for teachers of kindergarten through the third grade. Prerequisite: EdE 219.
EDE 460. SCIENCE IN THE ELEMENTARY SCHOOL
Understanding the challenge of the newer developments of science for the elementary school program. Study of the objectives of elementary science and of the selection and grade placement of subject matter.

EDE 480. THE PSYCHOLOGY OF SLOW LEARNING CHILDREN

EDE 484. LANGUAGE ARTS FOR SLOW LEARNING CHILDREN
Practical measures for taking care of the language and reading needs of mentally retarded children in special classes. Diagnosis of unique problems combined with practice and program development. Prerequisite: EDE 480.

EDE 485. SOCIAL STUDIES FOR SLOW LEARNING CHILDREN
Curriculum planning and program development for the integration of social studies in the education of mentally retarded children in special classes. Prerequisite: EDE 480.

EDE 486. MATHEMATICS FOR SLOW LEARNING CHILDREN
Deals with the special adjustments and techniques required in developing basic arithmetic skills in mentally retarded children in special classes. Prerequisite: EDE 480.

EDE 487. OCCUPATIONAL ORIENTATION AND JOB TRAINING
Designed to acquaint teachers with the problems and challenges involved in a program positively attuned to the limited occupational opportunities for mentally retarded children. Prerequisite: EDE 480.

EDE 488. MATERIALS OF INSTRUCTION FOR SLOW LEARNING CHILDREN
This course deals with the preparation, selection, and adaptation of instructional materials for slow learning children at the primary, intermediate, and secondary level. It points out the imperative need to use materials that meet the special needs of slow learners, a need that is not adequately met by using materials that exist for a specific grade level. This course is required for state certification in Ohio for teachers of slow learners.

Secondary Education (EdS)

Dr. Ellis Joseph, Chairman

Professors: Faerber, Leary

Associate Professors: Darby, Edgington, Jansen, Powers

Assistant Professors: Toth, White

Part-time Instructors: Corbett, Cronin, Markus, Weidner, Yura

EdS 327. BUSINESS EDUCATION IN THE SECONDARY SCHOOL
Principles and techniques of teaching business education subjects in high school, including both the social business and secretarial subjects. Prerequisite: EdF 208.

First Term, Each Year
EdS 331. RELIGION IN CCD (HIGH SCHOOL)  
Two Credit Hours  
Concentrates on principles and techniques of religious instruction for high school students and follows the program of the Confraternity of Christian Doctrine. Prerequisite: Eight semester hours of Theology. Second Term, 1966-1967

EdS 333. RELIGIOUS INSTRUCTION IN CCD PROGRAM  
Two Credit Hours  
Designed to prepare the student to teach Catholic pupils on released time from the public secondary schools. Prerequisite: Eight semester hours of Theology.

EdS 351. THE SECONDARY SCHOOL: PURPOSES AND PRACTICES  
Two Credit Hours  
Purposes, organization, curricula, community relationships, and the practical aspects of teaching in Junior and Senior High Schools. Visitation of high schools for observation. Prerequisites: EdF 207, EdF 208 or equivalents.

EdS 353. THE SECONDARY SCHOOL: MARIANIST  
Two Credit Hours  
Covers the basic course content of EdS 351 treated in terms of the Marianist traditions and concepts of teaching as revealed through Marianist educational literature. May be taken in lieu of EdS 351. Prerequisites: EdF 207, EdF 208. Summer

EdS 405. ENGLISH AND SPEECH IN SECONDARY SCHOOL  
Two Credit Hours  
Ways and means whereby the teacher can make his teaching more functional in the lives of students. Observation of teaching. Prerequisite: EdS 351 or EdS 353. Second Term, Each Year

EdS 406. SOCIAL STUDIES IN SECONDARY SCHOOL  
Two Credit Hours  
Aims and values of social studies in high school. General method and special techniques in the social studies field. Observation of teaching. Prerequisite: EdS 351 or EdS 353. Second Term, Each Year

EdS 408. MODERN LANGUAGE IN THE SECONDARY SCHOOL  
Two Credit Hours  
Considers the functions and values of language study; courses of study; organization of materials; conventional and progressive methods. Observation of teaching on high school level. Prerequisite: EdS 351 or EdS 353. Second Term, Evening

EdS 409. MATHEMATICS IN THE SECONDARY SCHOOL  
Two Credit Hours  
The objectives of high school mathematics; sequence and correlation of subject matter; methods of teaching. Directed observation of teaching. Prerequisite: EdS 351 or EdS 353. Second Term, 1966-1967

EdS 410. RELIGION IN THE SECONDARY SCHOOL  
Two Credit Hours  
Presents the teacher of religion with modern methods of instruction with view to the practical needs of adolescents. Prerequisite: EdS 351 or EdS 353.

EdS 411. SCIENCE IN THE SECONDARY SCHOOL  
Two Credit Hours  
Deals with instructional methods and materials in the modern science program. Includes the selection of objectives on the basis of reliable criteria, and the development of an integral science program. Prerequisite: EdS 351 or EdS 353. Second Term, 1966-1967

EdS 412. STUDENT TEACHING—SUMMER  
Six Credit Hours  
Supervised teaching in actual classroom situations during the summer period. A seminar on campus twice a week. Restricted to students who have had previous full-time teaching experience. Prerequisite: Special permission of the Dean.
**SECONDARY EDUCATION**

**EdS 414. Student Teaching (Secondary)  six-twelve credit hours**
Consists of teaching in actual classroom situations for full semester under close supervision. A seminar is held once a week. Prerequisite: Formal admission to student teaching a full semester in advance.

**EdS 415. Student Teaching (Special)  six-twelve credit hours**
Consists of teaching under close supervision in the specialized subject area in both elementary and high school grades for a minimum of twelve weeks. A seminar is held once a week. Prerequisite: Formal admission to student teaching a full semester in advance.

**EdS 416. The Teaching Internship  nine credit hours**
For beginning Marianist teachers in Marianist secondary schools. Supervised experiences under an administrator and a master teacher. Prerequisite: EdS 351.

_First and Second Term, Each Year_

**EdS 455. Practicum in High School Reading Improvement  two credit hours**
Diagnosis and cause of reading disabilities. Study of techniques applicable to delayed readers. Implementing the high school developmental reading program. Prerequisite: EdS 405.

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**Physical and Health Education (EdP)**

James B. LaVanche, Chairman

Henry Ferrazza, Director of Men's Division  
_Assistant Professors: Ferrazza, LaVanche_  
_Instructors: Donoher, Frericks, McVay, Schleppi_

Doris Drees, Director of Women's Division  
_Assistant Professor: Drees_  
_Instructors: Bieber, Bowman, Kutt, Siciliano, Tanner_

**General Program (Men)**

**EdP 101. Sports Appreciation  one credit hour**
Lecture course concerning the philosophy of sports, especially activities, functions, and personalities of sports in our culture. Required of all those excused from ROTC. Open as an elective to all students.  
_First Term, Each Year_

**EdP 102. Health  one credit hour**
Personal health knowledge for college students. Required of all those excused from ROTC. Open as an elective to all students.  
_First Term, Each Year_

**EdP 201-202. Physical Education Activities  one credit hour each term**
Provision of fundamental skills and knowledge of sports activities for those excused from ROTC and for non-medical reasons.
EdP 201A-202A. Adaptive Physical Education  
Provision of fundamental skills and knowledge of sports activities for those limited in participation by ruling of University Health Service.

GENERAL PROGRAM (Women)

✓ EdP 110. Health and Physical Education  
Orientation to physical education and health, consisting of the purposes and basic principles of physical education and health. The teaching of the fundamental skills and knowledge in outdoor team and individual sports.  
First Term, Each Year

✓ EdP 111. Health and Physical Education  
The teaching of fundamental skills and knowledge of indoor team and individual sports. The health lectures will consist of the study of social and sexual hygiene.  
Second Term, Each Year

✓ EdP 112. Health and Physical Education  
The teaching of skills and knowledge of outdoor and individual sports. The health lectures will consist of knowledge and attitudes concerning infectious diseases.  
First Term, Each Year

✓ EdP 113. Health and Physical Education  
The teaching of fundamental skills and knowledge of dance, recreational and individual activities. Five weeks of health instruction.  
Second Term, Each Year

EdP 110A, 111A, 112A, 113A. Adaptive Physical Education  
The teaching of recreational skills and limited motor activity.

PROFESSIONAL PROGRAM—Men’s Division

EdP 103-104(M). Fundamentals of Physical Education Activities  
Fundamentals of physical activities for physical education majors. Development of skills and knowledge needed to teach team and individual sports. Prerequisite to EdP 200.

EdP 203-204(M). Fundamentals of Physical Education Activities  
Continuation of EdP 103-104(M). Prerequisite to EdP 200.

EdP 116(M). Personal Health  
The course aims to establish and promote individual health and proper health habits through a study of the fundamentals of physical well-being. Required of all men pursuing a teaching field or major in physical education.  
Second Term, Each Year

EdP 119-120(M). Theory and Techniques of Officiating (elective)  
A development of knowledge of rules of football, basketball, baseball, and track and the application of the knowledge to actual game situations. Students are required to officiate intramural sports.

EdP 200. Methods in Team and Individual Sports  
Skills and methods needed to teach soccer, volleyball, touch football, archery, golf, badminton, bowling, etc. Prerequisite for EdP 433(M).  
Second Term, Each Year
EDP 212. COACHING BASEBALL AND TRACK  
Two credit hours
One-half the time will be spent on the theory and practice of each sport. Form and not athletic achievement will be stressed considering the abilities to be acquired.

EDP 311. COACHING FOOTBALL AND BASKETBALL  
Two credit hours
Study of theory, strategy, generalship, styles of offense and defense, methods of organizing practice and handling men. Demonstration and practice in fundamentals for all positions.

EDP 433(M). GYMNASTICS  
Two credit hours
Methods in conditioning, tumbling, horses, bucks, low and high bar, pyramid building, wrestling, trampoline, stunts with and without equipment.

Professional Program—Women's Division

EDP 103-104(W). FUNDAMENTALS OF PHYSICAL EDUCATION ACTIVITIES  
One credit hour each term
Fundamentals of physical activities for physical education majors. Development of skills, knowledge and strategy needed to teach team and individual sports.

EDP 203-204(W). FUNDAMENTALS OF PHYSICAL EDUCATION ACTIVITIES  
One credit hour each term
Continuation of EDP 103-104. Prerequisite to EDP 217.

EDP 116(W). PERSONAL HEALTH  
Two credit hours
The course aims to establish and promote individual health and proper health habits through a study of the fundamentals of physical well-being. Required of all women pursuing a teaching field or major in physical education.

EDP 119-120(W). THEORY AND TECHNIQUES OF OFFICIATING  
One-half credit hour each term
Rules and techniques of officiating hockey, volleyball, basketball, tennis and softball.

EDP 217. TEAM SPORTS  
Two credit hours
Skills and methods needed to teach hockey, soccer, speedball, volleyball, softball and basketball.

First Term, Each Year
EdP 245. Modern Dance  
Two credit hours  
Second Term, Each Year
Techniques involved in modern dance with emphasis on composition.

EdP 334. Individual Sports  
Two credit hours  
First Term, Each Year
Skills and methods needed to teach archery, bowling, badminton, tennis, golf, and fencing.

EdP 346. Problems in Physical Education for Women  
Two credit hours  
First Term, Each Year
Theory and practice in the organization and administration of drill teams, cheerleading groups, and Girls Athletic Association.

EdP 433(W). Gymnastics  
Two credit hours  
Second Term, Each Year
Methods and skills needed to teach stunts, tumbling, trampoline, calisthenics, balancing, free exercise, rope stunts and other self-testing activities.

Professional Program (Men and Women)

EdP 117. Recreational Leadership (elective)  
Two credit hours
Study and practice of the basic skills essential in planning and conducting a recreational program.

EdP 205-206. Human Anatomy and Physiology  
Six credit hours  
(See Bio 205-206.)

EdP 213. Principles of Physical Education  
Two credit hours  
First Term, Each Year
A study of the aims, scope, and biological aspects of physical education with special treatment of its place in education.

EdP 219. Community Health  
Two credit hours  
First Term, Each Year
Health and prevention of disease in the family, school, and community; relation of community health to disease control; important communicable diseases and their control.

EdP 251. Organization and Administration of Health Education  
Three credit hours  
Second Term, Each Year
The organization and administration of a school health program with specific reference to principles of health education, health services, healthful school living and health instruction.

EdP 309. Methods and Materials of Health Education  
Three credit hours  
First Term, Each Year
Application of principles of methodology to health education in the elementary and secondary schools. Develops standards and techniques for selecting suitable source material to be used in health teaching. Observation required.

EdP 324. Principles and Practices of Physical Education in the Elementary School  
Two credit hours  
First Term, Each Year
Principles and practices of teaching physical education in the elementary school. Relating the needs and abilities of children and youth to the physical education program.

EdP 325. Fundamental Rhythms  
Two credit hours
Methods and techniques of rhythmic routines and activities for elementary and second-
ary schools through participating and teaching of social, round, folk, and square dancing.

**EdP 336. Safety Education and First Aid**

Three credit hours

The study of the preventive aspects of accidents and injuries in the home, school, community and athletics. Practice in First Aid technique and treatment. Qualifying for the Red Cross First Aid Instructor's Certificate.

**EdP 348. Organization and Administration of Recreation**

Two credit hours

Study of the philosophy, leadership, standards and facilities of recreation, including outdoor education in various-sized communities.

**EdP 350. Kinesiology**

Three credit hours

The study of human movement. Body mechanics, posture, motor efficiency, sports, and the influence of growth and development upon motor performance are studied.

**EdP 402. Organization and Administration of Physical Education**

Two credit hours

Problems of organization and administration of physical education with added emphasis on the supervision of required and elective courses, intramural athletics and interschool athletics.

**EdP 405. Tests and Measurements in Physical Education**

Two credit hours

Critical analysis of existing testing methods in physical education. Study of current tests from the practical and theoretical viewpoint. The use of tests in the physical education program.

**EdP 407. Modern Problems in Public Health**

Two credit hours

Study of current health problems; special emphasis on preventive medicine, epidemiology, and organization for health. Introduction to seminar study.

**EdP 408. Physiology of Exercise**

Two credit hours

Detailed study of the effects of exercise on the respiratory, circulatory, and muscular systems. Specific consideration will be given to the physiology of fatigue, staleness, training, and conditioning.

**EdP 410. Adaptive Physical Education**

Two credit hours

A study of the handicapped child in order to organize and administer a program which will meet each individual's needs.

**EdP 413. Health Education in the Elementary School**

Three credit hours

Study of school health services, school environment and health instruction essential for maintaining and promoting the growth and well-being of the elementary school student. The standard first aid course offered.

**EdP 414. Physical Education in the Elementary School**

Three credit hours

Designed to equip the classroom teacher with methods and activities for conducting a physical education program for elementary students.

**EdP 420. Aquatics (Elective)**

Two credit hours

The American Red Cross Senior Life Saving and the Water Safety Instructor's Course. Prerequisite: Advanced Swimming. Offered upon demand.
EdP 450. **Selected Studies in Health and Physical Education**  
One-three Credit Hours  
Investigating, analyzing, and reporting on a problem in the areas of physical education or health education. Open to senior major students in physical education with permission of the chairman of the department.

**EdP Corrective Therapy Clinical Training**  
No Credit  
Corrective therapy clinical training program is offered students who major in health and physical education. Involves 250 clock hours of directed clinical training at the Veterans Administration Center, Dayton.

**School Administration and Counseling (EdA, EdC)**

Rev. Bernard Stueve, S.M., Chairman  
Professors: Campanelle, Leary  
Associate Professors: Edgington, Joseph, O'Donnell, Riley, Stueve  
Assistant Professors: Anderson, Sibbing, Toth  
Part-time Instructors: Crim, Sigmund, Wogaman

Courses are listed in the Graduate Catalog Issue of the Bulletin.

**Electrical Engineering (Ele)**

Bro. Louis H. Rose, S.M., Chairman  
Professors: Rose, Schmidt  
Associate Professors: Holian, Morgan  
Assistant Professors: Lewis, Tsui  
Instructor: Kubach

**Ele 201. Elements of Electrical Engineering**  
Three Credit Hours  
Physical and electrical concepts, electrical circuit analysis, power and energy, conductors and insulators, magnetic circuits, electrodynamics, electrostatics. Corequisites: Phy 207, Mth 217.

**Ele 205. Alternating Current Circuits**  
Three Credit Hours  

**Ele 307. Electrical Measurements**  
Three Credit Hours  
A basic course covering both DC and AC measurements; errors of measurements; deflection and null methods; bridge analysis; wave forms and AC meters; square law movements. Corequisite: Ele 205.

**Ele 307L. Electrical Measurements Laboratory**  
One Credit Hour  
ELE 309. ELECTRICAL TRANSIENTS  THREE CREDIT HOURS
Application of the Laplace Transform; poles and zeros; transient and steady-state response. Fourier series, integral, and transforms. Prerequisite: Mth 341.

ELE 310. CIRCUIT ANALYSIS  THREE CREDIT HOURS
Network theorems; wave filters; impedance transformation; long line theory; equalization. Prerequisite: Ele 312.

ELE 310L. CIRCUIT ANALYSIS LABORATORY  ONE CREDIT HOUR
Experiments to accompany topics outlined in Ele 310. Corequisite: Ele 310.

ELE 312. ENGINEERING ELECTRONICS I  THREE CREDIT HOURS
A basic course with emphasis on terminal behavior of vacuum tubes and transistors. Prerequisite: Ele 205.

ELE 312L. ENGINEERING ELECTRONICS LABORATORY I  ONE CREDIT HOUR
Receiving tube and transistor characteristics, electronic instruments, basic amplifier circuits, power supplies, waveshaping circuits. Corequisite: Ele 312.

ELE 313. ENGINEERING ELECTRONICS II  THREE CREDIT HOURS
A course in linear electronic circuits; network theorems; single and multistage amplifiers; transient response of electronic circuits and feedback amplifiers. Prerequisite: Ele 309. Corequisite: Ele 310.

ELE 313L. ENGINEERING ELECTRONICS LABORATORY II  ONE CREDIT HOUR
Single and multistage amplifiers, DC amplifiers, transistor amplifier configurations, feedback amplifiers, electronic timing and switching circuits. Corequisite: Ele 313.

ELE 318. MACHINERY I  THREE CREDIT HOURS
The theory, construction and characteristics of series, shunt and compound generators and motors; the theory of commutation and armature reaction; transformers. Prerequisite: Ele 205.

ELE 321. BASIC ELECTRIC THEORY  THREE CREDIT HOURS
For Chemical, Civil, Mechanical and Industrial Engineering students. Fundamental methods of analysis in DC and AC circuits. Prerequisites: Phy 207, Mth 218.

ELE 322. FUNDAMENTAL ENGINEERING ELECTRONICS  TWO CREDIT HOURS

ELE 322L. FUNDAMENTAL ENGINEERING ELECTRONICS LABORATORY  ONE CREDIT HOUR
Experiments, tests and measurements paralleling lectures in Ele 322. Basic receiving tube and transistor characteristics, electronic instruments, basic amplifier circuits, power supplies, wave-shaping circuits. Corequisite: Ele 322.

ELE 403. MACHINERY II  THREE CREDIT HOURS
Theory, construction and characteristics of polyphase induction motors, synchronous generators and motors, single phase motors and rotary converters. Selected topics on energy conversion. Prerequisite: Ele 318.
ELE 408L. Machinery Laboratory

ELE 410. Seminar
Presentation of papers by the students and lectures by engineers in active practice.

ELE 411. Electric and Magnetic Field Theory
Mathematical theory of classical electricity and magnetism with an introduction to electromagnetism and Maxwell’s equations. Prerequisite: Mth 341.

ELE 413. Communication Engineering
Treatment of Fourier series; Fourier transform, frequency and time domain; modulation; random signal theory; basic information theory; noise in communication system. Prerequisites: Ele 309, 310.

ELE 413L. Communication Engineering Laboratory
The experiments will be closely correlated with the lecture materials. Corequisite: Ele 413.

ELE 414. Advanced Electronics
Electron ballistics; theory of metals and semiconductors; electron emission, space charge flow, fundamental gas processes; modern electron devices. Prerequisite: Mth 341.

Electrical Engineering Electives

ELE 415. Microwave Theory and Practice
Maxwell’s equations; transmission lines, wave guides, cavity resonators; transmission, reflection, and absorption in media; microwave generators; applications of microwaves. Prerequisite: Ele 411.

ELE 417. Thesis
Independent project in a field selected by the student and approved by the faculty. Open to seniors in the second semester.

ELE 419. Servomechanisms
Closed-loop control systems; Routh’s and Nyquist stability criterion; attenuation-frequency methods. The root-locus approach; relationship between steady-state and transient performance. Prerequisite: Ele 309.

ELE 499. Special Problems in Electrical Engineering
Particular assignments to be arranged and approved by Chairman of the Department.
English (ENG)

Dr. B. J. Bedard, Chairman
Professors: Boll, Lees, O'Donnell
Associate Professors: Bedard, Kohles, McCarthy, Sturm
Assistant Professors: Arons, Cameron, Cochran, Donnelly, Fisher, Henninger, Labadie, Means, Murphy, Parouch, Rougier, Ruff, Shank, Stockum, Tiernan
Instructors: Horst, Kenny, Macklin, Marr, Palumbo, Pici, Preston

Eng 101 and Eng 102 are prerequisites for all courses listed as 200 or above. In addition to prerequisites Eng 101, 102, 221, 222 majors must take 316, 318, or 428; 405 or 431; 490; a semester of Shakespeare; a period survey each from sequence 412 to 435 and 488 to 442; a semester of American literature from the sequence 450 to 456; and one additional elective from 300-400 level offerings. In addition to Freshman and Sophomore courses minors must take one course from the 300 level and three from the 400 level. Majors and minors should consult the departmental chairman regarding their program of study.

The Department sponsors one co-curricular activity, The Exponent, the literary magazine of the University.

Students for whom English is a second language, in their first term, will be required to enroll in an intensive Review of American English offered through the Office of Special Sessions before their initial enrollment in Eng 101.

**Eng 101. English Composition I**
Three Credit Hours
Extensive practice in composition is integrated with analysis of selected readings. Frequent themes are assigned. Required of every student.

**Eng 102. English Composition II**
Three Credit Hours
Continuation of Eng 101. Practice is continued in various types of theme writing. Prerequisite: Eng 101. Required of every student.

**Eng 103. Advanced Placement English Composition**
Three Credit Hours
This course, designed for the freshman whose ability in written communication is superior, includes a study of various techniques of writing. Prerequisites: Superior score in entrance exams.

*First Term, Each Year*

**Eng 220. Introduction to Literature**
Three Credit Hours
Representative works are studied as a means of acquainting the student with the literary principles involved in poetry, drama, fiction, and essays. Prerequisite: Eng 102 or 103. Required of Sophomores in Business Administration.

**Eng 221. English Literature**
Three Credit Hours
A survey of English literature from its beginning to the present day; includes a study of the background as well as the works of the authors of each period. Prerequisite: Eng 102 or 103.

**Eng 222. American Literature**
Three Credit Hours
A survey of American literature from the Colonial Period to the present day; presents a study of the background as well as representative works of the different periods. Prerequisite: Eng 102 or 103.
ENG 240-241.  Sophomore Honors  
A seminar in which selected works from the literature of western civilization would be studied. Prerequisite: Sophomore standing in Arts. By invitation only.

ENG 280.  Directed Readings I (former Bus 298)  
A program of professionally oriented readings and reports in humanities and social sciences, utilizing seminars and individual conferences. Required of Sophomores in Business Administration. Prerequisite: Eng 102.  
First Term, Each Year

ENG 281.  Directed Readings II (former Bus 299)  
A continuation of Eng 280. Required of Sophomores in Business Administration. Pre-

Second Term, Each Year

ENG 315.  Development of Grammar  
Studies in grammatical structure of modern English in the light of historical development. Traditional and modern linguistic points of view considered.  
Second Term, Each Year

ENG 316.  Advanced Composition  
Offers intensive practice in the standard forms of theme writing, with emphasis on the formal, rhythmic, and thought patterns of the sentence, the paragraph, and the total composition. Prerequisites: Eng 101-102.

ENG 318.  Creative Writing  
The principles for writing the short story, the informal and formal essay, and the biographical sketch. Prerequisite: Eng 316 or permission.

ENG 321.  European Literature of the Middle Ages  
A consideration of selected literary masterpieces of Western civilization in the Middle Ages. Prerequisite: Eng 221, 222.

ENG 322.  World Literature  
A survey of the literature of continental Europe and of Asia, from its beginning up to the twentieth century.  
First Term, Each Year

ENG 323.  Dante  
A comprehensive study of the three Canticles of the Divine Comedy: Inferno, Purgatorio, and Paradiso.  
Second Term, Each Year

ENG 329.  Short Story  
A study of the techniques employed in the writing of the short story. Various models of the short story will be analyzed.

ENG 330.  Development of Drama  
A study of the historical development of the drama from its beginnings in the Classic Age to the nineteenth century. Selected plays from each significant period are read and analyzed.

ENG 332.  Modern Drama  
A selected number of dramas, representing the best of world theater by the foremost playwrights of the modern period.
ENGLISH 191

ENG 352. **TOPICS IN MODERN LITERATURE**
Three Credit Hours
A study of selected Continental, English, and American writers with a background of discussion of the significant forces shaping the literature of the twentieth century.

ENG 360. **CHILDREN'S LITERATURE**
Three Credit Hours
Treats the various fields of children's literature, including: history of children's literature, poetry for different age levels, folk tales, story telling. Required of and limited to students in Elementary Education.

ENG 362. **SHAKESPEARE**
Three Credit Hours
A study of selected plays of Shakespeare. Some of these are discussed intensively in class; others are assigned for outside reading.

ENG 368. **NEWMAN: THE IDEA OF A UNIVERSITY**
Three Credit Hours
The primary objective of this course is to cultivate a consciousness of the "philosophical habit of the mind," as set forth by Cardinal Newman in the *Discourses on the Idea of a University*.

ENG 370. **FRANCIS THOMPSON**
Three Credit Hours
A study of his poems toward the discernment of their manifold spiritual and autobiographical implications.

ENG 380. **DIRECTED READINGS III (FORMER BUS 398)**
One Credit Hour

ENG 381. **DIRECTED READINGS IV (FORMER BUS 399)**
One Credit Hour

ENG 403. **HISTORY OF THE ENGLISH LANGUAGE**
Three Credit Hours
Stages in the development of the English language and influences shaping its development are studied to show what happened to the English language from the beginning to the present time.

ENG 405. **CHAUCER**
Three Credit Hours
A study of the life, the times, and the language of Chaucer. The main concentration is on *The Canterbury Tales* as rendered in Middle English. Prerequisite: Eng 221, 222.

ENG 407. **MEDIEVAL ENGLISH LITERATURE**
Three Credit Hours
A study of the dominant types in the literature of England from the beginning to 1500. Prerequisite: Eng 221, 222.

ENG 412. **EARLY RENAISSANCE LITERATURE**
Three Credit Hours
A survey of the non-dramatic literature of the sixteenth century from Thomas More to Sidney and Spenser. Prerequisite: Eng 221, 222.

ENG 413. **LATER RENAISSANCE LITERATURE**
Three Credit Hours
A survey of the non-dramatic literature of the early seventeenth century from Bacon, Jonson, and Donne, to Marvell, exclusive of Milton. Prerequisite: Eng 221, 222.
ENG 420. Renaissance Drama
A study of the drama of the Elizabethan, Jacobean, and Caroline periods, exclusive of Shakespeare. Prerequisite: Eng 221, 222.

ENG 423. Tragedies of Shakespeare
All of the tragedies of Shakespeare are read; some are taken through in detail in the lecture periods and the rest assigned for out of class reading. Prerequisite: Eng 221, 222.

ENG 424. Comedies of Shakespeare
The same procedure as followed for Eng 423. Some of the Comedies may be omitted at the discretion of the professor. Prerequisite: Eng 221, 222.

ENG 425. Histories of Shakespeare
The same procedure as followed for Eng 423. All of the Histories are taken. Prerequisite: Eng 221, 222.

ENG 428. Literary Criticism
A study of the history and development of literary criticism. It includes a study of fundamental principles of literary structure and style, together with the various theories advanced. Prerequisite: 221, 222.

First Term, Each Year

ENG 431. Milton
A study of the major and minor poems and of selected prose of Milton. Prerequisite: Eng 221, 222.

First Term, Each Year

ENG 434. Age of Wit and Satire
A study of the neo-classical literature from the Restoration to the middle of the eighteenth century. The concern of the course is with the literature from Dryden to Pope, Addison, and Steele. Prerequisite: Eng 221, 222.
Eng 435. English Literature of the Eighteenth Century  
A study of the most representative works in prose and poetry from Swift to Johnson.  
Prerequisite: Eng 221, 222.

Eng 437. The English Novel  
A study of the development of the English novel from its beginning in the middle of the eighteenth century to the end of the nineteenth century. Prerequisite: Eng 221, 222.

Eng 438. The Age of Romanticism  
A study of the major poets and critics of the Romantic Age. Prerequisite: Eng 221, 222.

Eng 441. The Victorian Age I  
A study of the major English poets from Tennyson to Housman. Prerequisite: Eng 221, 222.

Eng 442. The Victorian Age II  
English prose writers from Carlyle to Pater. Eng 441 is not a prerequisite. Prerequisite: Eng 221, 222.

Eng 445. Modern British Fiction  
A consideration of significant developments in the novel and short fiction from Joyce to the present day. Prerequisite: Eng 221, 222.

Eng 446. Modern English Poetry  
A study of tradition and innovation in English poetry from Yeats to the present day. Prerequisite: Eng 221, 222.

Eng 450. Nineteenth Century American Poetry and Prose  
A survey of the significant developments in American literature, exclusive of fiction, from Bryant and Poe to Whitman and Henry Adams. Prerequisite: Eng 221, 222.

Eng 452. American Fiction of the Nineteenth Century  
A study of developments in the novel and short fiction from Washington Irving to Mark Twain and Stephen Crane. Prerequisite: Eng 221, 222.

Eng 454. Modern American Fiction  
A treatment of significant movements in the novel and in the theory of fiction in twentieth century American literature. Prerequisite: Eng 221, 222.

Eng 456. Modern American Poetry  
A study of the technique of modern poetry in America from Robinson, Jeffers, and Frost to the present. Prerequisite: Eng 221, 222.

Eng 490. Seminar  
Concentration on one literary figure, genre, or period for purposes of research and analysis. Reports are read at sessions. Required of all majors in English. With permission. Prerequisite: Eng 221, 222.
Fine Arts (Art)

Edward R. Burroughs, Chairman
Associate Professor: Burroughs
Instructor: Weber
Part-time Instructors: Carmichael, Martino

Art 101-102. Introductory Drawing
Introduction to drawing from a variety of objects, as well as from the imagination, as a means of visual communication. Contact with a wide range of drawing media is encouraged to develop capabilities. One two-hour course each week.

Art 103-104. Introductory Painting
Painting in oil and water color from still life, landscape and floral subjects. Emphasis is placed on composition and application of art theories. One two-hour course each week.

Art 201-202. Principles of Design
A study of the underlying elements and principles of design as they are applied to surface pattern. Color theories and their use in creative design are a part of this course. One two-hour course each week.

Art 204-206. Lettering and Calligraphy
The same rules governing other aspects of art apply also to lettering. Application of the drawn letter and the designed letter to poster, books, inscriptions and manuscripts through class assignments and projects will be required. One two-hour course each week.

Art 205. Graphic Arts
The principal processes of the graphic arts are studied as they pertain to contemporary expression in the fine arts and advertising. Offered only at Marianist College.

Art 207. Commercial Art and Lettering
Basic principles of advertising design, layout and lettering (designed and drawn letter) and the relation of these subjects to current problems and methods. Offered only at Marianist College.

Art 210-211. Advanced Principles of Design
Principles and practices in the application of design to the Fine Arts as well as the Practical Arts. The assignments are designed to motivate the student in design solutions of projects requiring research into original concepts of design. The project-oriented program includes assignments in the areas of graphic design, and product design. One two-hour course each week.

Art 213-214. Advanced Drawing
Studio course offering further disciplined study in various drawing media such as pencil, crayon, charcoal, and ink on the medium of expression. One two-hour course each week.

Art 215-216. Advanced Painting
A continuation of Art 104, Introductory Painting, with increasing emphasis on the personal interpretation of the subject. The use of various painting media are encouraged, such as oil, water color, and opaque water color. One two-hour course each week.
Art 222. Practical Arts in the Intermediate Grades  
Two Credit Hours  
Same as Art 221, adjusted to the maturity of children in the intermediate grades. Accredited in Education. One two-hour course each week.

Art 224-225. Sculpture  
Four Credit Hours  
Consideration of form as a means of developing an understanding of mass, shape, and control of medium. Direct use of the widest possible range of materials with special emphasis on the integration of their characteristics with the expression. One two-hour course each week.

Art 301. Christian Art  
Two Credit Hours  
A study of the best examples of sacred art as representative expositions of Christian theology and religious tradition; correlations with Church history, theology, music, literature. Offered only at Regina Heights.

Art 310-311. Advanced Design Problems  
Four Credit Hours  
The widest possible latitude for experimentation and development of his own direction is provided during this third year of study. At this time he is considered a mature student with a developed point of view about his work. One two-hour course each week.

Art 313-314. Drawing Problems  
Four Credit Hours  
Observational and expressive drawing. The use of accumulated knowledge from previous drawing experiences in the introductory program, to assist in the development of an individual creativity and original style. One two-hour course each week.

Art 324-325. Advanced Sculpture  
Four Credit Hours  
Contemporary consideration of sculptural form. Individual expression, employing the use of modern techniques and experimental as well as traditional materials. One two-hour course each week.

Art 407. Art in the Schools  
Two Credit Hours  
Use of art elements and principles as the basis for creative-approach; organization of units of work, including drawing, painting, design, color, modeling, block printing, lettering, and the mural. Accredited in Education. One two-hour course each week.

Art 408. History of Art  
Two Credit Hours  
A study of the masters of art and the influences upon their works, beginning with the late Gothic period and continuing through the Baroque movement. One two-hour course each week.

Art 409. History of Art  
Two Credit Hours  
A continuation of Art 408, beginning with the styles in the art of the masters of the Rococo period through Impressionism to contemporary movements in art. One two-hour course each week.

Art 410. History of Art  
Two Credit Hours  
Art forms in the New World are invested with idealisms similar to their contemporary European styles. The Art of the Americas answers special needs arising from the character of the people of the continents of the Western Hemisphere. One two-hour course each week.
ART 417W. ELEMENTARY SCHOOL ART
THREE CREDIT HOURS
A workshop designed to give the regular classroom teacher on the elementary level new and practical ideas on the employment of art materials and techniques in relation to seasonal interest of pupils and to holiday observances.

Arthur 477W. ART IN THE SCHOOLS
THREE CREDIT HOURS
Intended primarily for the teacher on the elementary level; creative art expression, use of materials, study of handwork and organization of units of work. May substitute for Art 407.

Geology (Geo)

George H. Springer, Chairman
Professor: Springer
Assistant Professors: Gray, Horvath
Instructor: Sardi
Part-time Instructor: Herron

Geo 103. PRINCIPLES OF GEOGRAPHY
An analysis of the physical factors of the earth’s environment; weather, climate, rocks, land forms, oceans. Does not satisfy science requirement for Arts and Sciences. THREE CREDIT HOURS

Geo 115. PHYSICAL GEOLOGY
An introductory course in geologic principles; the composition and structure of the earth, its land forms, and the agencies active in their production. THREE CREDIT HOURS

Geo 115L. PHYSICAL GEOLOGY LABORATORY
Course to accompany Geo 115. Two hours per week.

Geo 116. HISTORICAL GEOLOGY
A comprehensive study of earth history as interpreted from the rocks of the crust. Pre-requisite: Geo 115

Geo 116L. HISTORICAL GEOLOGY LABORATORY
Course to accompany Geo 116. Two hours per week. THREE CREDIT HOURS

Geo 201. MINERALOGY
An introduction to the study of minerals; their chemical and physical properties; their associations and occurrences. THREE CREDIT HOURS

Geo 201L. MINERALOGY LABORATORY
Course to accompany Geo 201. Three hours per week. ONE CREDIT HOUR

Geo 204. OPTICAL MINERALOGY
Mineral determination through the use of the petrographic microscope employing crushed grains and thin sections. Prerequisite: Geo 201. TWO CREDIT HOURS

Geo 204L. OPTICAL MINERALOGY LABORATORY
Course to accompany Geo 204. Four hours per week. TWO CREDIT HOURS
A comprehensive study of geologic principles applicable to civil engineering practices.

Second Term, Each Year

The origin and development of structural features of the earth’s crust; folding, faulting, volcanism, mountain building, and metamorphism. Prerequisites: Geo 115, 116, 201, 204.

First Term, 1967-1968

The origin of mountain and continental glaciers; their depositional features and erosive activity; history of glaciation in geologic past with special emphasis upon North American Pleistocene ice advances. Prerequisites: Geo 115, 116.

Second Term, 1967-1968

Six weeks summer study of structural and age relationship problems in areas containing abundant crystalline and sedimentary exposures. Prerequisites: Geo 115, 116, and 301.

Summer

A detailed study of landforms and the erosional processes that develop them. Prerequisites: Geo 115, 116, and 301.

Second Term, 1966-1967

A study of the composition of igneous, sedimentary, and metamorphic rocks through the use of thin sections and hand specimens. Prerequisite: Geo 204.

First Term, 1967-1968

A study of animal life of the geologic past as shown by the fossil record.

Second Term, 1967-1968

Detailed study of sediments; their sources, environments of deposition, and methods of
consolidation. Sedimentary rock classifications and analyses. Prerequisites: Geo 201, 204, 301.

**GEO 403L. SEDIMENTATION LABORATORY**
Course to accompany Geo 403. Two hours per week.

**GEO 404. PROBLEMS IN GEOLOGY**
A consideration of special problems involving advanced work in the laboratory and library; arranged to meet the needs of individual students.

**GEO 411. IGNEOUS PETROLOGY**
A study of the formation of igneous rocks. Prerequisites: Geo 201, 204, 309.

**GEO 411L. IGNEOUS PETROLOGY LABORATORY**
Course to accompany Geo 411. Two hours per week.

**GEO 415-416. MICROPALEONTOLOGY**
A study of microfossils with special attention given to index fossils characteristic of various geologic horizons. Prerequisites: Geo 310, 403.

**GEO 415L-416L. MICROPALEONTOLOGY LABORATORY**
Course to accompany Geo 415-416. Two hours per week.

**History (Hst)**

Dr. Wilfred J. Steiner, Chairman
*Professors:* Ruppel, Steiner
*Associate Professors:* Beauregard, Donatelli, Maras
*Assistant Professors:* Bannan, Cortada, Eid, King, Kutolowski, Mathias, Sha
*Instructor:* Isaacs
*Part-time Instructor:* Howell

History courses in the 100-200 series are prerequisite courses and may not be applied toward a major or a minor.

The course requirement for History majors is 26 credit hours, distributed as follows:

1. Four courses from Groups I, II, III, with at least one course in each group—a total of 12 credit hours;
2. Two courses from Group IV and two from Group V—a total of 12 credit hours;
3. History 401—2 credit hours.
4. Honors Colloquium course may replace any 300-400 course except History 401.
The course requirement for History minors is 12 credit hours. Two courses should be selected from Groups I, II, and III, and two courses from Groups IV and V.

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Hst 101. **History of Civilization**
A survey of mankind from earliest times to 1660 A.D. The course stresses the social and cultural aspects of the prehistoric, ancient, medieval, and early modern eras.

Hst 102. **History of Civilization**
A survey of mankind from 1660 A.D. to the present. Emphasis on the Old Regime, the French Revolution and Napoleonic Age, the Era of Nationalism and Liberalism, the New Industrialism and Imperialism.

Hst 120. **History of England**
This course is designed to acquaint undergraduate students with the major forces and trends in the history of England from earliest times to the present.

Hst 125. **History of Russia**
The development of the Russian state from earliest times to the present. This course is concerned with the origins of the Russian state, political and economic growth, and the development of the modern Soviet state.

Hst 130. **History of the Far East**
Brief review of the early historical development of the Far East, and a study of China and Japan in the 19th and 20th centuries. Emphasis on political, religious, cultural, and economic growth of China and Japan.

Hst 135. **History of Africa**
Attuned to the new approach to African history, this survey, covering early times to the present, aims to display Africa's significance by examples of political grandeur, commercial ingenuity, intellectual ferment, and religious revolutions.

Hst 201. **American History to 1865**
A general survey of the development of the American nation from colonial times to 1865. Due consideration is given to political trends, but the economic and social foundations of American institutions are also emphasized.

Hst 252. **American History since 1865**
This course carries forward the story of the nation and its development after the Civil War. Stress is on those social, economic, and political problems, a knowledge of which is essential to an understanding of contemporary America.
Hst 260. Social and Cultural History of the United States  Three credit hours
Social and cultural development of the American people. Emphasis upon the growth of national spirit, the impact of expansion, conflict over slavery, and problems of industrialization and urbanization.

Hst 265. Diplomatic History of the United States  Three credit hours
Beginning with an explanation of the foundations of American foreign policy this course continues with the diplomacy of continental expansion through the 19th century. Emphasis is placed on diplomatic problems since 1898.

Hst 270. Economic History of the United States  Three credit hours
A survey of the economic theories and institutions peculiar to the United States with special reference to their influence on social and political development.

Hst 275. Latin American Republics  Three credit hours
A survey of the development of the Latin American republics from independence to the present. Stress will be placed on political, economic, and social development.

Hst 300. Roman History  Three credit hours
A survey of the political, cultural, religious, and socio-economic history of the Roman Republic and Empire, 509 B.C. to 476 A.D. A study of early Christianity and the Byzantine Empire is included. Second Term, 1966-1967

Hst 301. Medieval Europe  Three credit hours
The development of European history from the 4th to the 14th century. Topics include: birth of Middle Ages; Christianity; Byzantine, Islamic, and Carolingian Empires; feudalism; manorialism; Crusades; growth of national states. First Term, 1966-1967

Hst 302. Renaissance and Reformation  Three credit hours
The development of European history from the 14th to the middle of the 17th century. Emphasis on the economic, political, social, and religious aspects of the Renaissance, Protestant Revolution, and Catholic Reformation. Second Term, 1966-1967

Hst 303. Expansion of Europe  Three credit hours
A study of European imperialism from the 15th to the 20th century. Stress is laid on the reasons for the beginning of the movement, the theory and practice of colonialism, and the manner in which imperialism influenced Europe. First Term, 1967-1968

Hst 304. The Age of Enlightenment  Three credit hours
Designed to bridge the gap between the later Reformation and the era of the French Revolution. Intellectual and cultural developments will be covered, with emphasis on political, economic and social trends of the Old Regime. Second Term, 1967-1968

Hst 306. Intellectual and Cultural History of Modern Europe  Three credit hours
Close analysis of men, ideas, and principal cultural developments in the period beginning with the Renaissance and extending into the 20th century. Second Term, 1966-1967

Hst 309. Ancient History  Three credit hours
A survey of ancient civilizations between 5000 B.C. and 30 B.C., including Egyptian, Mesopotamian, Anatolian, Syro-Palestinian, Persian, Aegean, Hellenic, and Hellenistic. First Term, 1967-1968
HST 310. MILITARY HISTORY SINCE 1789
This course touches upon the evolving concept and philosophy of war, the development and inter-relationships of weapons, tactics and strategy, and the role of military affairs in politics.

First Term, 1966-1967

HST 313. CHRISTIAN ANTIQUITY
This course investigates origin and cultural setting of early Christianity, the conflict with the pagan Roman Empire and emergence of Christianity under Constantine. Offered only at Carthage.

First Term, Each Year

HST 318. FRENCH REVOLUTION AND NAPOLEONIC ERA
Concentration on the ideological, economic, social and political background of the Revolution; an analysis of the Revolutionary governments; the resulting international wars; the rise and fall of Napoleon.

Second Term, 1966-1967

HST 319. FRANCE SINCE 1815
A study of French history from the Bourbon Restoration to the establishment of the 20th century Fourth Republic, with special emphasis on the intellectual, social, economic, political, and diplomatic trends.

Second Term, 1966-1967

HST 336. CHURCH HISTORY I
Christianity in the Roman Empire; the Trinitarian and Christological controversies; conversion of the barbarians and lay domination; the Church and medieval society. Offered only at Regina Heights.

HST 337. CHURCH HISTORY II
The Protestant revolt and the Catholic reformation; the Church and the absolute state; secularism, liberalism, and modernism; the Church in the twentieth century. Offered only at Regina Heights.

HST 340. THE REVOLUTIONARY ERA, 1789-1918
A historical analysis of the European nations and peoples emphasizing the themes of War and Revolution. The course covers the revolutions of the period as well as ideological, scientific, and technological developments.

First Term, 1966-1967
Hst 345. History of World Religions I  THREE CREDIT HOURS
A historical survey of the origins, literature, beliefs, and practices of significant eastern Mediterranean religions including Christianity, Judaism, Gnosticism, Islam and others.  
Second Term, 1967-1968

Hst 346. History of World Religions II  THREE CREDIT HOURS
A historical survey of the origins, literature, beliefs and practices of important Far Eastern religions including Hinduism, Buddhism, Confucianism, Shinto and others.  
First Term, 1966-1967

Hst 351. American Colonial History  THREE CREDIT HOURS
A study of the foundations of American Nationality: European background of America, development of the colonial system, transplanting of ideas and institutions from the Old World, growth of democratic tendencies.  
Second Term, 1967-1968

Hst 356. Latin America: The Colonial Period  THREE CREDIT HOURS
The Indian civilizations, the Spanish and Portuguese conquest, the colonial period and the movements for independence are covered. Special emphasis is placed on the blending of Iberian, Indian, and African cultures.  
First Term, 1966-1967

Hst 364. History of Ohio  THREE CREDIT HOURS
Political, economic, and cultural history of the state will be explained in relation to the parallel growth of the United States. Recommended for elementary and secondary school teachers.  
First Term, 1967-1968

Hst 370. The Age of Jefferson and Jackson  THREE CREDIT HOURS
Emphasizes the whole range of historical, cultural, social and political trends that are traditionally associated with the presidencies of Jefferson and Jackson. The period covered extends from the 1790's to the 1850's.  
Second Term, 1967-1968

Hst 375. The Progressive Period (1890-1920)  THREE CREDIT HOURS
A study in depth of the major historical trends that dominated these years which saw the universal acceptance of America's claim to world power. Due attention will be placed on cultural as well as political developments.  
Second Term, 1966-1967

Hst 401. Pro-Seminar in History  TWO CREDIT HOURS
An introduction to historiography and the study of research and writing in History. A term paper is required. Prerequisite: 6 credit hours of upper level history.

Hst 408. History of Modern Communism  THREE CREDIT HOURS
A historical treatment of modern communism and the growth of Communist parties after 1917. Marxism, Leninism, Stalinism, and Maoism will be considered in their historical settings and in the light of Christian principles.  
First Term, 1967-1968

Hst 409. Europe Since 1918  THREE CREDIT HOURS
Topics included: causes and outcome of World War I; internal policies of nations between the two World Wars; diplomatic actions leading to World War II; and the impact of World War II.  
First Term, 1967-1968

Hst 421. History of England Since 1688  THREE CREDIT HOURS
A study of England and Great Britain from the Restoration to the present time. The aim of the course is to study the economic, political, and cultural developments of the Hanoverian, Victorian and modern periods.  
Second Term, 1967-1968
HST 424. AFRICA, 19TH AND 20TH CENTuries
This course seeks to develop two themes—foreigners winning domination of Africa and
the resulting native attempts to obtain freedom. Three Credit Hours
Second Term, 1966-1967

HST 429. MODERN GERMANY
Analysis of the development of the German state from 1848 through the period of
unification, Second Empire, Weimar Republic, Third Reich, the post World War II
Germanies. Three Credit Hours
Second Term, 1967-1968

HST 431. MODERN CHURCH HISTORY
The French Revolution. Napoleon and Pius VII. Secularization in Germany. The Catho-
lic Romantic Movement. The Cologne conflict. The Oxford Movement. The Roman
Question. Offered only at Carthagena. Three Credit Hours
Second Term, Each Year

HST 435. THE MIDDLE EAST, 19TH AND 20TH CENTuries
A survey of the Ottoman Empire, Iran, Egypt, and the modern states of the Middle
East, emphasizing the development of nationalism and the place of the Middle East in
international politics. Three Credit Hours
First Term, 1966-1967

HST 451. CIVIL WAR AND RECONSTRUCTION
Remote and immediate causes of the Civil War, especially from 1850 to 1861: problems
of North and South during the war; consequences of the war; efforts to create a new
Union, 1865 to 1877; problems created by those efforts. Three Credit Hours
First Term, 1967-1968

HST 458. INTELLECTUAL AND CULTURAL HISTORY OF THE U.S.
An attempt to trace the evolution of a distinctive American civilization through a study
of American thought and its expression in the fine and utilitarian arts. There will be
parallel treatment of fine arts and technological developments. Three Credit Hours
First Term, 1967-1968

HST 459. U.S. CONSTITUTIONAL HISTORY
A historical analysis of the origin and evolution of the American Constitution, constitu-
tional theory and constitutional practice. Three Credit Hours
Second Term, 1967-1968

HST 461. THE HISTORY OF MEXICO
Study of Mexican history since 1820. Origins of revolution of 1910 and its development
to the present emphasize Mexico's struggle for democracy. Diplomatic and cultural
relations between Mexico and the U.S. are considered. Three Credit Hours
First Term, 1967-1968

HST 462. THE A-B-C POWERS
The historical role of Argentina, Brazil, and Chile. Internal problems are considered in
a detailed study of national histories. 20th century developments are stressed. The place
of these powers in international politics is analyzed. Three Credit Hours
Second Term, 1966-1967

HST 470. THE CATHOLIC CHURCH IN THE U.S.
This course begins with the establishment of the first Catholic missions in the U.S. The
influence of the Church on the cultural, political, economic and religious customs of the
American people is explained. Three Credit Hours
First Term, 1966-1967

HST 481. RECENT AMERICAN HISTORY
A study of the immediate background of contemporary political, social and economic
problems. Topics discussed: "Normalcy," Depression and New Deal, impact of World
War II on the United States, and World Communism. Three Credit Hours
Each Term, 1966-1967
Hst 490. THE WESTWARD MOVEMENT
THREE CREDIT HOURS
A history of the expansion of settlement in the U.S. since 1788. Topics include explorations, Indian relations, land policy, transportation, types of frontier settlements, and Western influence on American ideals and institutions. Each Term, 1966-1967

Hst 495. AMERICAN HISTORIANS
THREE CREDIT HOURS
Intensive readings and discussion to foster understanding of American history, as written and interpreted in various periods and intellectual environments. Second Term, 1967-1968

Hst 497. HONORS COLLOQUIUM I
THREE CREDIT HOURS
A course devoted to the study of a special topic in American History to be selected by the instructor. Applicants will be admitted on the basis of academic record. Limited to ten students. Second Term, Each Year

Hst 498. HONORS COLLOQUIUM II
THREE CREDIT HOURS
A course devoted to the study of a special topic in non-American History to be selected by the instructor. Applicants will be admitted on the basis of academic record. Limited to ten students. First Term, Each Year

Home Economics (HEC)

Elizabeth L. Payne, Chairman
Associate Professor: Payne
Assistant Professors: Bernhard, Ittelson, Metzger, Smallwood

HEC 101. CLOTHING I
TWO CREDIT HOURS
A study of clothing selection and construction of simple garments using commercial patterns. Emphasis is on short-cut methods of construction, fitting, dressmaking, details and finishing procedures. Two lecture periods per week.

HEC 101L. CLOTHING I LABORATORY
ONE CREDIT HOUR
A course to accompany Hec 101 lecture. One three-hour period per week.

HEC 102. FOODS I
TWO CREDIT HOURS
Basic principles and practices in food planning, preparation, preservation and serving. Two lecture periods per week.

HEC 102L. FOODS I LABORATORY
ONE CREDIT HOUR
A course to accompany Hec 102 lecture. One three-hour period per week.

HEC 105. INTRODUCTION TO RELATED ART
THREE CREDIT HOURS
A study of the fundamentals of design and color and their application in selection and arrangement. Three lecture periods per week. First Term, Each Year

HEC 201. FOODS II
TWO CREDIT HOURS
Continuation of Foods I. Two class periods per week. Prerequisite: Hec 102 or equivalent.

HEC 201L. FOODS II LABORATORY
ONE CREDIT HOUR
Course to accompany Hec 201 lecture. One three-hour laboratory period per week.
Hec 211. Clothing II  
Two credit hours  
Detailed emphasis on principles of fitting and creative construction. Two lecture periods per week. Prerequisite: Hec 101 or equivalent.

Hec 211L. Clothing II Laboratory  
One credit hour  
Course to accompany Hec 211 lecture. One three-hour laboratory period per week.

Hec 214. Textiles I  
Three credit hours  
A study of the natural man-made and synthetic fibers for the use and care of finished fabrics. Three class periods per week.  
Second Term, Each Year

Hec 221. Home Management I  
Three credit hours  
A study of the management and use of resources to promote the development of home and family life. Three class periods per week.  
First Term, Each Year

Hec 225. Child Development I  
Three credit hours  
Developmental study of prenatal, infancy and early childhood. Observation and work in nursery school arranged. Two lecture periods per week.  
First Term, Each Year

Hec 303. Nutrition and Health  
Three credit hours  
Fundamental principles of human nutrition, including requirements of the body for the nutritive essentials, the composition of foods and the planning of adequate diets for health. Three class periods per week.

Hec 304. Quantity Cookery  
One credit hour  
The planning, preparing and serving of foods in large quantities. Use and care of equipment for quantity cookery. One class period per week.

Hec 304L. Quantity Cookery Laboratory  
Two credit hours  
Course to accompany Hec 304 lecture. Two two-hour periods per week.

Hec 308. Institutional Buying  
Three credit hours  
Selection and methods of purchasing institutional food and equipment. Three class periods per week.  
First Term, 1967-1968

Hec 309. Household Equipment  
Three credit hours  
A study of the principles involved in the selection, construction, operation and care of household equipment and its relation to the well-being of the family. Three lecture periods per week. Prerequisites: Hec 102, 201 or equivalent.

Hec 318. Family Living  
Three credit hours  
A consideration of the factors necessary for the establishment and maintenance of a home in its changing context. Three lecture periods per week.  
Second Term, Each Year

Hec 323. Demonstration Methods  
One credit hour  
A study of lecture-demonstration techniques. Stress is placed on giving lecture-demonstrations. Two class periods per week.

Hec 327. Food Preservation and Experimental Cookery  
Two credit hours  
The experimental application of food principles, theory and procedures in food handling. Two lecture periods per week. Prerequisite: Hec 201.  
Second Term, Each Year
HEC 327L. Food Preservation in the Home Laboratory
Course to accompany Hec 327 lecture. One three-hour laboratory period per week.

Second Term, Each Year

HEC 328. Home Furnishings and Housing
A study of housing and selection of furnishings for the home, including arrangements, period styles and decorative details. Three lecture periods per week. Prerequisite: Hec 105.

Three Credit Hours

HEC 329. Child Development II
An evaluation of the growth of children; case study and nursery school participation arranged. Two lecture periods per week. Prerequisite: Hec 225.

Three Credit Hours

HEC 401. Advanced Nutrition
Aims to extend the student's knowledge of the science of nutrition, stressing the metabolism of food constituents and the recent advances in the field of nutrition. Three class periods per week. Prerequisite: Hec 303.

Three Credit Hours

HEC 402. Diet in Disease
Adaptation of diet to disease. Three class periods per week. Prerequisite: Hec 303.

Three Credit Hours

HEC 405. Teaching of Home Economics in Schools
A study of Home Economics philosophies and Vocational Home Economics methods. Planning, preparing and presenting units and lessons for different grade levels. Three class periods per week.

Three Credit Hours

First Term, 1967-1968

HEC 406. Home Management II
Planning experience in maintaining a home on a minimum budget. One lecture period per week. Prerequisite: Hec 221.

One Credit Hour

HEC 406L. Home Management II Laboratory
Course to accompany Hec 406 lecture.

Two Credit Hours

HEC 407. Institutional Organization and Management
Principles and problems of feeding institutional groups, including personnel management, organization and administration. Three class periods per week.

Three Credit Hours

Second Term, 1966-1967

HEC 415. Tailoring
Tailoring construction as applied in the making of coats and suits. One lecture period per week. Prerequisites: Hec 105, 211 or equivalent.

One Credit Hour

Second Term, Each Year

HEC 415L. Tailoring Laboratory
Course to accompany Hec 415 lecture. Two two-hour periods per week.

Two Credit Hours

Second Term, Each Year

HEC 430. Problems in Home Furnishings
Problems of making slip covers and draperies; individual problems of refinishing furniture and upholstery. Two class periods per week. Prerequisite: Hec 105.

Two Credit Hours

First Term, Each Year

HEC 430L. Home Furnishings Laboratory
Course to accompany Hec 430 lecture. One three-hour period per week.

One Credit Hour

First Term, Each Year
INDUSTRIAL ENGINEERING 207

HEC 436. SPECIAL PROBLEMS  
Problems chosen for individual study in various areas of the field of Home Economics. Two periods per week.

HEC 436L. SPECIAL PROBLEMS LABORATORY  
Course to accompany Hec 436 lecture. One two-hour laboratory.

HEC 437. MEAL MANAGEMENT  
To develop the ability to plan, prepare and serve palatable, nutritious and attractive meals at various economic levels. Gourmet and foreign cookery is also included. Two lecture periods per week. Prerequisite: Hec 201.  
As Needed

HEC 437L. MEAL MANAGEMENT LABORATORY  
Course to accompany Hec 437 lecture. One two-hour period per week.  
As Needed

Industrial Engineering (INE)

Robert I. Mitchell, Chairman  
Professor: Schmid  
Associate Professor: Mitchell

INE 201. INDUSTRIAL ENGINEERING FUNDAMENTALS  
A study of the development of industrial engineering, the scope of its function, its relationship to other professions, organizing for industrial engineering, and methods for utilizing industrial engineering techniques.

INE 301. PERSONNEL ADMINISTRATION  
A study of the contributions of the behavioral sciences to the design of complex management systems which require effective integration of human resources.  
First Term, Each Year

INE 305. WAGE ADMINISTRATION  
A study of financial remuneration; theory, philosophy, and practice. An interdisciplinary approach involving economics, psychology, sociology, engineering and management as they are related to the design of management systems.  
Second Term, Each Year

INE 310-311. ENGINEERING SYSTEMS DESIGN I AND II  
Emphasizing the total systems concept for solving engineering design problems reasoning from general principles or laws to their application to achieve specific objectives.

INE 313. ENGINEERING LAW  
Legal principles applied to engineering.

INE 320-321. MANAGEMENT SYSTEMS DESIGN I AND II  
The application of design concepts to the development of simple systems which involve purposeful human industry with special attention to the integration of scientific and engineering methods with those of the applied psychologists or social scientists.

INE 332. STATISTICAL CONTROL AND SYSTEMS DESIGN  
Sampling theory, tests of hypotheses, analysis of variance, regression and correlation, experimental design, and factor analysis with examples from quality control and process design, analysis and control. Prerequisite: Mth 331.  
First Term, Each Year
INE 401. ENGINEERING ECONOMY  
TWO CREDIT HOURS  
Emphasizes rational, scientific methods of economic analysis for engineering and management decision-making.

INE 403. TIME AND MOTION STUDY I  
TWO CREDIT HOURS  
A study of the job analysis techniques including process charts, right and left hand charts, the laws of motion economy, man-machine charts and a survey of micromotion techniques.

INE 403L. TIME AND MOTION STUDY LABORATORY I  
ONE CREDIT HOUR  
A series of laboratory problems based on the above. Corequisite: Ine 403.

INE 404. TIME AND MOTION STUDY II  
TWO CREDIT HOURS  
A study of advanced problems in establishing standard time data, progressive operations, application of statistics, micromotion study with practical problems. Prerequisite: Ine 403.  
Second Term, Each Year

INE 404L. TIME AND MOTION STUDY LABORATORY II  
ONE CREDIT HOUR  
A series of laboratory problems based on the above. Corequisite: Ine 404.  
Second Term, Each Year

INE 405. PRODUCTION PLANNING  
THREE CREDIT HOURS  
A study of the practices in production scheduling, routing, dispatching and inventory control; including an analysis of mechanized systems and current practices.  
Second Term, Each Year

INE 406. PLANT LAYOUT AND MATERIAL HANDLING  
TWO CREDIT HOURS  
The design of a plant for a specified product. Includes: structure; power requirements; heat; light; sound; and ventilation; transportation facilities, material handling requirements and equipment. Prerequisites: Ine 405, Mee 206L.  
First Term, Each Year

INE 406L. PLANT LAYOUT LABORATORY  
ONE CREDIT HOUR  
The complete design of a light manufacturing plant including choice of site, building, equipment and organizational structure. Corequisite: Ine 406.

INE 408. ADMINISTRATION AND ORGANIZATION  
THREE CREDIT HOURS  
Social relationships, achievements, goals, objectives of organizations. Processes, functions, techniques, and tasks of management. Theories and practices utilized in the dispersion and concentration of authority and responsibility.

INE 410. SEMINAR  
ONE CREDIT HOUR  
Required of all senior industrial engineering students. The preparation and presentation of a paper on current industrial engineering practices and topics.

INE 421. RELIABILITY THEORY  
THREE CREDIT HOURS  
Second Term, Each Year

INE 422. RELIABILITY APPLICATION  
THREE CREDIT HOURS  
The application of reliability theories to the design of complex, integrated systems. Prerequisite: Ine 421.  
First Term, Each Year

INE 499. SPECIAL PROBLEMS IN INDUSTRIAL ENGINEERING  
TWO TO SIX CREDIT HOURS  
Particular assignments to be arranged and approved by Chairman of the Department.
Languages

Dr. James M. Ferrigno, Chairman
Professors: Ferrigno, Perz
Associate Professor: Sullivan
Assistant Professors: Bartholomew, McKenzie, MacLemore, Rus, Sory
Instructors: Beigel, Benivegna, Castelló, Darby, Descoteaux, Dietz, Galeano, Morère, Zeinz
Part-time Instructors: Anduze, Millonig, Reyst, Sasseville, Stock, Zieba

A language major may arrange his courses, with the approval of the department chairman, in one of these two forms of concentration: (A) Major in a single language, requiring 24 hours in upper level courses (300-400); (B) Composite major, requiring a minimum of 18 hours in each of two languages (any level).

It is recommended that students of either category elect a minor in languages as well. For a language minor, students in category A are required to do 12 hours of upper level work not in their major language, and students in category B are required to add 18 hours (any level) preferably in a language or languages other than those of their composite major; other students need 18 hours (any level) in one language.

Note: All the courses in Greek are offered only at Marianist College, and are restricted to student members of the Society of Mary.

French (FRN)

FRN 101. ELEMENTARY FRENCH
Elements of French, including pronunciation, reading, translation, grammar, dictation and conversation.

FRN 102. ELEMENTARY FRENCH II
Continuation of Elementary French 101. Prerequisite: Frn 101.

FRN 107. ELEMENTARY FRENCH
Elements of French, including pronunciation, reading, translation, dictation and conversation. Six class hours. This course is given only at Wright-Patterson Air Force Base.

FRN 201. INTERMEDIATE FRENCH
Grammar review, selected readings from modern authors, exercises in composition and conversation. Prerequisite: Frn 102.

FRN 202. INTERMEDIATE FRENCH II
Continuation of Intermediate French 201. Prerequisite: Frn 201.

FRN 207. INTERMEDIATE FRENCH
Composition and conversation, selected readings. Six class hours. Prerequisite: Frn 107 or equivalent. This course is given only at Wright-Patterson Air Force Base.

FRN 307. ADVANCED FRENCH COMPOSITION AND CONVERSATION
Practice in composition based on area material. Intensive drill in the aural and oral use of the language. First Term, Each Year
FRN 308. **Advanced French Composition and Conversation**
Continuation of Advanced French Composition and Conversation, Frn 307.

FRN 309. **Rapid Reading in French**
A course designed to improve and accelerate reading ability and to develop understanding and appreciation of the great works of French literature. Readings, reports and discussions.

FRN 310. **Rapid Reading in French**
Continuation of Rapid Reading in French 309.

FRN 311. **French Literature to 1700**
A survey of French literature from the earliest beginnings to the eighteenth century, with special emphasis on the principal authors and works of the seventeenth century. Lectures, discussions and reports on area material.

FRN 312. **French Literature to 1700**
Continuation of French Literature to 1700, Frn 311.

FRN 405. **French Literature of the Twentieth Century**
A survey of the literary movements, outstanding authors and works of the present century. Lectures, discussions and reports on assigned readings.

FRN 406. **French Literature of the Twentieth Century**
Continuation of French Literature of the Twentieth Century, Frn 405.

FRN 407. **French Literature of the Eighteenth and Nineteenth Centuries**
A survey covering the literary movements, outstanding authors and works of this period. Lectures, discussions and reports on assigned readings.

FRN 408. **French Literature of the Eighteenth and Nineteenth Centuries**
Continuation of French Literature of the Eighteenth and Nineteenth Centuries, Frn 407.

**German (GER)**

GER 101. **Elementary German**
Elements of German, including pronunciation, reading, translation, grammar, dictation and conversation.

GER 102. **Elementary German II**
Continuation of Elementary German 101. Prerequisite: Ger 101.

GER 107. **Elementary German**
Elements of German, including pronunciation, reading, translation, dictation and conversation. Six class hours. This course is given only at Wright-Patterson Air Force Base.
GERMAN 211

GER 201. Intermediate German
Grammar review, selected readings from modern authors, exercises in composition and conversation. Prerequisite: Ger 102.

GER 202. Intermediate German
Continuation of Intermediate German 201. Prerequisite: Ger 201.

GER 207. Intermediate German
Composition and conversation, selected readings. Six class hours. Prerequisite: Ger 107 or equivalent. This course is given only at Wright-Patterson Air Force Base.

GER 301. German Literature till 1800
A survey of German literature from the earliest times to the period of Romanticism. A study of literary movements, outstanding authors and works. Lectures, discussions and reports on assigned readings.

GER 302. German Literature till 1800
Continuation of German Literature till 1800, Ger 301.

GER 308. Advanced German Conversation and Composition
Intensive drill in the oral and aural use of the language, based on area material. Practice in composition.

GER 309. German Civilization
A survey of the German people, its geographical, historical and political background.

GER. 407. German Literature of the Twentieth Century
A survey of the outstanding authors and works of the present century. Lectures, discussions and reports on assigned readings.

GER 408. The Classical Period
A study of the principal authors and works of this period. Lectures, discussions and reports on assigned readings.

GER 409. German Literature of the Nineteenth Century
A survey of nineteenth century German literature, including a study of literary movements, outstanding authors and works. Lectures, discussions and reports on assigned readings.

GER 410. German Literature of the Nineteenth Century
A continuation of German Literature of the Nineteenth Century, Ger 409.

Greek (Grk)

Grk 101. Elementary Greek
A study of the essentials of Greek grammar with exercises and readings.

Grk 102. Elementary Greek
Continuation of Elementary Greek 101. Prerequisite: Grk 101.
GRK 201. **Intermediate Greek**
Continuation of the study of grammar. Readings from New Testament. Prerequisite: Grk 102.

**THREE CREDIT HOURS**

GRK 303. **Plato**
The *Apologia* is read and selections from the rest of Plato's works. Plato's contribution to the history of ideas as emphasized and illustrated through extensive supplementary reading in Jowett.

**THREE CREDIT HOURS**

GRK 304. **Homer**
Readings from the *Iliad* and the *Odyssey*.

**THREE CREDIT HOURS**

GRK 305. **The Septuagint**
Extensive readings. Comparison with the Vulgate. Excursions into the field of Biblical science.

**THREE CREDIT HOURS**

GRK 306. **The New Testament**
Similar to Grk 305. Comparison of the Greek and Latin texts with modern renditions.

**THREE CREDIT HOURS**

GRK 403. **Greek Drama**
Readings of Sophocles' *Oedipus Rex* and *Antigone* with a study of the origin and development of Greek drama.

**THREE CREDIT HOURS**

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**Hebrew (Heb)**

HEB 101. **Elementary Hebrew**
Brief history of the language. Basic grammar: nouns and adjectives with their pronominal suffixes; regular verbs in the seven ordinary conjugations; prepositions and their suffixes. Reading, translation, writing, and conversation.

**THREE CREDIT HOURS**

First Term, Each Year

HEB 102. **Introduction to Classical Hebrew**

**THREE CREDIT HOURS**

Second Term, Each Year

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**Italian (ITA)**

ITA 101. **Elementary Italian**
Elements of Italian, including pronunciation, reading, translation, grammar, dictation and conversation.

**THREE CREDIT HOURS**

ITA 102. **Elementary Italian**
Continuation of Elementary Italian 101. Prerequisite: Ita 101.

**THREE CREDIT HOURS**

ITA 201. **Intermediate Italian**
Grammar review, selected readings from modern authors, exercises in composition and conversation. Prerequisite: Ita 102.

**THREE CREDIT HOURS**

ITA 202. **Intermediate Italian**
Continuation of Intermediate Italian 201. Prerequisite: Ita 201.

**THREE CREDIT HOURS**
**LATIN 213**

**ITA 301. Masterpieces of Italian Literature**
Major works from Dante to Tasso, presented in literary-historical perspective. Prerequisite: Ita 202 or permission of the Department.

**First Term, 1966-1967**

**ITA 302. Masterpieces of Italian Literature**
The major works from Marino to D’Annunzio presented in literary-historical perspective. Prerequisite: Ita 202 or permission of the Department.

**Second Term, 1966-1967**

**ITA 307. Advanced Italian Composition and Conversation**
Practice in composition based on area material. Intensive drill in the aural-oral aspects of the language. Discussions, reports, debates. Three class hours and two laboratory hours. Prerequisite: Ita 202 or permission of the Department.

**First Term, 1967-1968**

**ITA 308. Advanced Italian Composition and Conversation II**
Continuation of Ita 307.

**Second Term, 1967-1968**

**LAT (LAT)**

**LAT 101. Elementary Latin**
A college course in Latin fundamentals.

**Three Credit Hours**

**LAT 102. Elementary Latin**
A continuation of Elementary Latin 101. Prerequisite: Lat 101.

**Three Credit Hours**

**LAT 201. Intermediate Latin**
Second year course in Latin. Readings from classical authors of the pre-Christian periods. Prerequisite: Lat 102.

**Three Credit Hours**

**LAT 202. Intermediate Latin**
A continuation of Intermediate Latin 201. Prerequisite: Lat 201.

**Three Credit Hours**

**LAT 301. Latin Composition and Conversation**
This course aims to give an intensive review of inflections and syntax with emphasis on original style and fluency of expression.

**Second Term, Each Year**

**LAT 302. Intensive Latin**
An intensive course in Latin Composition and Conversation with special emphasis on philosophical and ecclesiastical Latin. Prerequisite: Latin 301.

**Eight Credit Hours**

**Summer**

**LAT 304. Vergil**
A survey of the work of Vergil, with special attention to the literary art of the *Aeneid* and the nature and development of the Roman epic.

**Second Term, Each Year**

**LAT 305. Medieval Latin**
An outline of the main course of Latin literature from 400 A.D. to 1500 A.D., with special attention being given to the classical heritage of the Middle Ages.

**Three Credit Hours**

**LAT 306. Horace**
Readings of selected Odes and Epodes, and the *Ars Poetica* of Horace; a study of his lyric quality, workmanship, and meters.

**First Term, Each Year**
LAT 307. Readings in Latin Literature
This course embraces the reading of excerpts from a wide range of Latin authors.
First Term, Each Year

LAT 309. Cicero
A study of De Amicitia and De Senectute or other works of Cicero.
Second Term, Each Year

LAT 310. Selected Letters of Pliny
A study of the Latin letter as a literary form. The men and the world of the times of Pliny are revealed by his letters.
First Term, Each Year

LAT 313. Ovid
Intensive readings in the Metamorphoses with emphasis on the influence of the mythological epic on some of the modern literatures.

LAT 314. Livy
This course comprises readings from Books I, XXI, and XXII of Livy’s History and an examination of his historical method and literary form.

LAT 401. Advanced Latin Composition
An intensive course in Latin composition, with special attention to the classical type of Cicero.

LAT 403. Seneca
A study of Seneca’s philosophical style and the ethical teaching of Stoicism as revealed in his Moral Epistles and Essays.

LAT 405-406-407. Philosophical Latin
Translation of Latin philosophical works. Lat 405: Logica et Ontologia; Lat 406: Cosmologia et Psychologia; Lat 407: Theodicaea et Ethica. Summer

LAT 412. Ecclesiastical Latin
The object of this course is to acquaint students for the priesthood with the Latin of theologians. Summer

LAT 413. The Confessions of St. Augustine
Excerpts are taken from the first Nine Books. First Term, Each Year

LAT 414. Patristic Latin
Selections from St. Augustine, Tertullian, St. Cyprian, Lactantius, St. Ambrose, St. Jerome, and other Fathers.

Russian (Rus)

RUS 101. Elementary Russian
Designed to familiarize the beginner with the essentials of the spoken and written language. Vocabulary practice, simple sentence structure, conversational drills, and reading, stress on pronunciation and handwriting.

RUS 102. Elementary Russian II
Continuation of Russian 101. Prerequisite: Rus 101.
**RUS 107. ELEMENTARY RUSSIAN**
Elements of Russian, including pronunciation, reading, translation, dictation and conversation. Six class hours. This course is given only at Wright-Patterson Air Force Base.

**RUS 201. INTERMEDIATE RUSSIAN**
Review of the essentials of grammar, intensive conversational and comprehension exercises, reading of graded modern and contemporary prose and poetry. Prerequisite: Rus 101-102, or equivalent.

**RUS 202. INTERMEDIATE RUSSIAN II**
Continuation of Russian 201. Prerequisite: Rus 201.

**RUS 203. SCIENTIFIC RUSSIAN**
This course is given only at Wright-Patterson Air Force Base. Prerequisite: Rus 101-102, or equivalent.

**RUS 204. SCIENTIFIC RUSSIAN**
Continuation of Scientific Russian, Rus 203.

**RUS 207. INTERMEDIATE RUSSIAN**
Composition and conversation, selected readings. Six class hours. Prerequisite: Rus 107 or equivalent. This course is given only at Wright-Patterson Air Force Base.

**RUS 301. RUSSIAN READING AND CONVERSATION**
For students who possess a general knowledge of Russian, but lack practical experience of the spoken language. Conversation is based on more advanced reading material. Prerequisite: Rus 201-202, or equivalent.  
*First Term, Each Year*

**RUS 302. RUSSIAN READING AND CONVERSATION**
Continuation of Rus 301.  
*Second Term, Each Year*

**RUS 303. ADVANCED RUSSIAN GRAMMAR AND COMPOSITION**
Phonology and Morphology. A thorough treatment, entirely in Russian, of pronunciation and the parts of speech including a basic treatment of the verb. Recommended for future teachers or graduate students.  
*First Term, Each Year*

**RUS 304. ADVANCED RUSSIAN GRAMMAR AND COMPOSITION**
Specialized Morphology. Syntax. A treatment, like that of Rus 303, of verb aspects, word structure and sentence structure. Entirely in Russian. May be taken independently of Rus 303.  
*Second Term, Each Year*

**RUS 403. EARLY RUSSIAN LITERATURE**
Short review of the beginnings of Russian literature, the early forms of literature, the post-Peter I period, and the outstanding authors. Introduction to techniques of translation. Conducted in Russian.  
*First Term, 1967-1968*

**RUS 404. LATER RUSSIAN LITERATURE**
The literature of the late 18th Century. Reading of outstanding works. Literature of 19th and 20th Centuries (outstanding works and authors). Scientific translation. Course conducted in Russian.  
*Second Term, 1967-1968*
Rus 405. Pushkin
Survey of Pushkin's life, work and influence. Extensive readings in his works and readings in selected authors, contemporary or later, who show his influence. Course conducted in Russian.

Rus 406. L. N. Tolstoy
Survey of Tolstoy's life, work and influence. Extensive readings in his works and readings in selected authors, contemporary or later, who show his influence. Course conducted in Russian.

Spanish (SpN)

Spn 101. Elementary Spanish
Elements of Spanish, including pronunciation, reading, translation, grammar, dictation and conversation.

Spn 102. Elementary Spanish II
Continuation of Spanish 101. Prerequisite: Spn 101.

Spn 107. Elementary Spanish
Elements of Spanish, including pronunciation, reading, translation, dictation and conversation. Six class hours. This course is given only at Wright-Patterson Air Force Base.

Spn 201. Intermediate Spanish
Grammar review, selected readings from modern authors, exercises in composition and conversation. Prerequisite: Spn 102.

Spn 202. Intermediate Spanish
Continuation of Intermediate Spanish 201. Prerequisite: Spn 201.
SPN 207. Intermediate Spanish  
Composition and conversation, selected readings. Six class hours. Prerequisite: Spn 107 or equivalent. This course is given only at Wright-Patterson Air Force Base.

SPN 301. Spanish Literature  
A survey of Spanish literature, with special emphasis on the Golden Age and the modern period. Lectures, discussions and reports on assigned readings.  
*First Term, 1966-1967*

SPN 302. Spanish Literature  
A continuation of Spanish Literature, Spn 301.  
*Second Term, 1966-1967*

SPN 303. Spanish-American Literature  
A study of the principal authors and works of the colonial, revolutionary and modern periods. Lectures, discussions and reports on assigned readings.  
*First Term, 1967-1968*

SPN 304. Spanish-American Literature  
A continuation of Spanish-American Literature, Spn 303.  
*Second Term, 1967-1968*

SPN 307. Advanced Spanish Composition and Conversation  
Practice in composition based on area material. Intensive drill in aural and oral use of the language.  
*First Term, Each Year*

SPN 308. Advanced Spanish Composition and Conversation II  
Continuation of Spn 307.  
*Second Term, Each Year*

SPN 403. Modern Spanish Dramatists  
A study of the important dramatists from 1830 to the present time. Lectures, discussions and reports on assigned readings.  
*First Term, 1967-1968*

SPN 404. Drama of the Golden Age  
A study of the significance and principal works of the great dramatists of the sixteenth and seventeenth centuries. Lectures, discussions and reports on assigned readings.  
*Second Term, 1967-1968*

SPN 405. Spanish Literature of the Twentieth Century  
A study of the principal Spanish and Spanish-American authors and works of the present century. Lectures, discussions, and reports on assigned readings.  
*First Term, 1966-1967*

SPN 406. Spanish Novelists of the Nineteenth Century  
A study of the more important works of the principal novelists of this period. Lectures, discussions and reports on assigned readings.  
*Second Term, 1966-1967*

Marketing (Mkt)  
Harry C. Murphy, Chairman  
Associate Professors: Comer, Murphy  
Assistant Professors: Densmore, Van Istendal  
Part-time Instructors: Bowersox, Jeffrey, Hull

Mkt 305. Principles of Marketing  
The general principles and practices underlying the processes of marketing. An analysis of the problems of the manufacturer, wholesaler, retailer and other marketing agencies. Principles, trends, methods and policies with relation to marketing efficiency.
Mkt 310. Salesmanship  
THREE CREDIT HOURS
A study of the basic principles underlying all selling and their practical application to specific cases.

Mkt 315. Retail Merchandising  
THREE CREDIT HOURS
Surveys basic merchandising principles and problems of large and small retail stores. Includes organizations, location, buying and selling, cost reductions, current practices and trends. Prerequisite: Mkt 305.

Mkt 316. Retail Organization and Operation  
THREE CREDIT HOURS
Principles of store management, store location, buildings, and equipment, store organization, expense center accounting, receiving and marking, store protection, and coordination of retail store activities are studied. Prerequisite: Mkt 305.

Mkt 318. Retail Advertising and Sales Promotion  
THREE CREDIT HOURS
Principles and practices of retail advertising and other sales promotion activities; where, when, and what to promote; budgeting and planning of special events and activities; emphasis upon coordination. Prerequisites: Mkt 315 or Mkt 316.

Mkt 335. Advanced Marketing  
THREE CREDIT HOURS
The marketing policies of manufacturers and wholesalers; the technique of marketing research; analysis of current problems and literature relating to marketing efficiency. Prerequisite: Mkt 305.

Mkt 405. Consumer Behavior  
THREE CREDIT HOURS
The consumer-firm relationship studied in terms of concepts drawn from contemporary social sciences as related to present and prospective business activities.
Mkt 411. Sales Management
The structure of the sales organization, determination of sales policies, the selection, training, and motivation of salesmen, the establishing of sales territories and quotas. Prerequisites: Mkt 305 and Bus 313 or Psy 302.

Mkt 417. Retail Buying and Merchandising Mathematics
Determining what to buy, how much, market resources, and model stocks, as well as the mathematic principles involved in purchase planning, planning initial markup, terms and dating, stockturn, inventory methods. Prerequisites: Mkt 315 or Mkt 316.

Mkt 420. Marketing Communications
Problems of marketing considered as problems of effective communication in such functional areas as advertising, personal selling, packaging, research, display and pricing. Prerequisite: Mkt 305.

Mkt 421. Advertising
Nature and functions of advertising; the preparation of layouts; the writing of copy; selection and evaluation of media. The coordination of advertising with other marketing efforts. Social implications of advertising are discussed.

Mkt 425. Credit and Collections
Nature and functions of credit. Principles and practices in retail and mercantile credit administration. Sources and analysis of credit information.

Mkt 430. Marketing Research
A study of the application of some of the limitations of the scientific method to the definition and solution of marketing problems. Examines the range of activities and the problems faced in market research. Prerequisites: Mkt 305 and Bus 313 or Psy 302.

Mkt 499. Problems in Marketing
A study of one or more specific aspects of the marketing process with emphasis on individual student reading and research. Subject matter to be determined by the instructor on the basis of interest and need of the student. Enrollment limited.

Mathematics (MTH)

Dr. Kenneth C. Schraut, Chairman
Professors: Bellmer, Schraut
Associate Professors: Esser, Prather, Stander
Assistant Professors: Back, Cada, Dwyer, McCloskey, Mushenheim, Peterson, Rice, Schoen
Instructors: Baker, Wagner
Part-time Instructors: Campbell, Grabner, Hudson, Luers, Poole, Young, Zonars

MTH 111. Mathematics and Its Cultural Aspects
Historical development of mathematics, the axiomatic approach, various mathematical systems, applications. Three class periods a week. Prerequisite: One and one-half years of high school algebra and a year of high school geometry.
Mth 117. College Algebra and Trigonometry  
Three Credit Hours
For students proficient in traditional high school mathematics but who do not qualify for Mth 216. Meets five times per week. Prerequisite: One and one-half years of high school algebra and a year of high school geometry.

Mth 121. College Algebra  
Three Credit Hours
Systems of equations, progressions, logarithms, binomial theorem, complex numbers, determinants, theory of equations, and probability. Prerequisites: One and one-half years of high school algebra and one year of high school geometry.

Mth 122. Plane Trigonometry  
Three Credit Hours
The usual topics in plane trigonometry with applications. Prerequisite: Mth 121 or registration therein.

Mth 123. Analytic Geometry  
Four Credit Hours
The traditional topics covered in plane and solid analytic geometry. Prerequisites: Mth 121 or Mth 117.

Mth 141. Mathematical Concepts I  
Three Credit Hours
Concepts necessary for an understanding of the structure of arithmetic and its
algorithms. Prerequisite: One year of high school algebra and one year of high school geometry.

Mth 142. Mathematical Concepts II

Concepts necessary for an understanding of operations and structure of algebra and geometry. Prerequisite: Mth 141.

Mth 151. Structure of the Real Number System I

Equivalent to Mth 141. Currently offered only under special auspices.

Mth 152. Structure of the Real Number System II

Continuation of Mth 141. Mathematical concepts related to the fundamental operations with real and complex numbers. Currently offered only under special auspices. Prerequisite: Mth 151.

Mth 155. Elements of Algebra

For those preparing to teach in the elementary schools. Follows the School Mathematics Study Group, Volume III. Currently offered only under special auspices. Prerequisite: One year of high school algebra and one year of high school geometry.

Mth 160. Elements of Geometry

For those preparing to teach in the elementary schools. Follows the School Mathematics Study Group, Volume V. Currently offered only under special auspices. Prerequisite: One year of high school algebra and one year of high school geometry.

Mth 201. Differential and Integral Calculus I

Differentiation of algebraic and transcendental functions and integration of polynomials with applications to geometry and physics. Fundamental theorem of integral calculus. Prerequisite: Mth 123.

Mth 202. Differential and Integral Calculus II

Continuation of Mth 201. Integration of algebraic and transcendental functions. Approximate integration; indeterminate forms, infinite series, multiple integrals; partial differentiation. Prerequisite: Mth 201.

Mth 210-211. Introductory Mathematical Analysis

Sets, systems of numbers, functions and the mapping process, sequences, limits, continuous functions, derivative function, exponential and logarithmic functions, definite integral, applications to life sciences and behavior sciences. Prerequisite: Mth 121.

Mth 216. Analytic Geometry and Calculus I

Fundamentals of Analytic Geometry, differentiation of Algebraic Functions with applications to geometry and physics, indefinite and definite integrals with applications to geometry and physics. Prerequisite: Mth 117 or Mth 121 and 122.

Mth 217. Analytic Geometry and Calculus II

Conic Sections, differentiation of transcendental functions, polar coordinates, formal integration, further applications of the definite integral. Prerequisite: Mth 216.

Mth 218. Analytic Geometry and Calculus III

Improper integrals, infinite series, expansion of functions, solid analytic geometry, partial differentiation, multiple integrals. Prerequisite: Mth 217.
**MTH 301. DIFFERENTIAL EQUATIONS**

Equations of the first order and first degree, linear equations of higher order with constant coefficients, method of Frobenius, Euler's equations and other special equations. Prerequisite: Mth 202 or Mth 218.

**MTH 331. STATISTICS FOR ENGINEERS**

Probability distributions including binomial, hypergeometric, Poisson, Normal. Estimation of mean and standard deviation. Sampling distributions. Quality Control procedures including acceptance and inspection sampling. Confidence intervals and tests of hypotheses using t, chi-square, and F statistics. Prerequisite: Mth 218. First Term, Each Year

**MTH 332. INDUSTRIAL AND ENGINEERING APPLICATIONS OF STATISTICS**


**MTH 341. ADVANCED ENGINEERING MATHEMATICS I**

Linear differential equations of higher order with constant coefficients, power series solutions, Bessel's equation, Legendre's equation, the Laplace transformation, applications to problems in Engineering. Prerequisite: Mth 202 or Mth 218.

**MTH 342. ADVANCED ENGINEERING MATHEMATICS II**

Introduction to vector analysis, line and surface integrals, Green's Theorem, Stokes' theorem, the divergence theorem. Fourier series, introduction to matrices and determinants. Prerequisite: Mth 341.

**MTH 343. ADVANCED ENGINEERING MATHEMATICS III**


**MTH 351. NUMERICAL ANALYSIS**

See Cps 351. Prerequisite: Mth 301 or 341, Cps 233 or 241. Each Term, Each Year

**MTH 361. INTRODUCTION TO ABSTRACT ALGEBRA**

Introductory treatment of the various number systems of elementary algebra, fundamental concepts of groups, rings, integral domains and fields. Prerequisite: Mth 202 or Mth 218. First Term, Each Year

**MTH 362. INTRODUCTION TO LINEAR ALGEBRA AND MATRICES**

Fundamental concepts of vector spaces, systems of linear equations, determinants, linear transformations and matrices. Prerequisite: Mth 202 or Mth 218. Second Term, Each Year

**MTH 370. INTRODUCTION TO HIGHER GEOMETRY**

Euclidean, projective, affine, and metric geometries using synthetic and analytic methods. Prerequisite: Mth 218.

**MTH 381. APPLIED BOOLEAN ALGEBRA**

See Cps 381. Prerequisite: Cps 233 or 241; Corequisite: Mth 218. Each Term, Each Year

**MTH 390. INTRODUCTION TO THE FOUNDATIONS OF MATHEMATICS**

Introduction to mathematical logic and set theory, the history and development of the
various schools of mathematical thought. Offered in alternate years. Prerequisite: Mth 218 and Mth 361.

MTH 401. Advanced Calculus for Engineers I
Continous, differentiable, and Riemann integrable functions, functions of several variables, vector algebra and calculus, line integrals. Prerequisite: Mth 202 or Mth 218.
First Term, Each Year (Evening)

MTH 402. Advanced Calculus for Engineers II
Multiple integrals, infinite series, introduction to functions of a complex variable. Prerequisite: Mth 401.
Second Term, Each Year (Evening)

MTH 411. Probability and Statistics I
Mathematical probability, stochastic variables, joint distributions, Bayes' theorem, moments, Chebyshev's inequality, limit theorems including the laws of large numbers and Central Limit theorem. Prerequisite: Mth 202 or Mth 218.

MTH 412. Probability and Statistics II
Random sampling, estimation of parameters including maximum likelihood, methods of moments, and Bayes' estimate, confidence intervals, tests of hypotheses, regression, sampling from a normal population. Prerequisite: Mth 411.
Second Term, Each Year

MTH 413. Probability and Statistics III
Statistical decision theory, partitioning of sums of squares, analysis of variance, regression on several independent variables, multiple regression approach to analysis of variance, design of experiments. Prerequisite: Mth 412.

MTH 421. Advanced Calculus I
The number system, sequences and series, functions of a real variable, functions of several variables. Prerequisite: Mth 202 or 218.
First Term, Each Year

MTH 422. Advanced Calculus II
The definite integral, improper integrals, line integrals, multiple integrals, and uniform convergence. Prerequisite: Mth 421.
Second Term, Each Year

MTH 432. Fourier Series and Boundary Value Problems
Partial differential equations of physics, orthogonal sets of functions, fundamental properties of Fourier series, Bessel functions, and Fourier-Bessel expansion. Prerequisite: Mth 421 or registration therein.

MTH 455-456. Advanced Numerical Analysis
See Cps 455-456. Prerequisite: Mth 351.

MTH 461. Introduction to the Theory of Functions of a Complex Variable
Fundamental concepts, Cauchy integral theorem, analytic functions, analytic continuation, conformal transformations, the calculus of residues, applications to physics and engineering. Prerequisite: Mth 218.
First Term, Each Year

MTH 465. Modern Operational Mathematics
The Laplace transformation and applications, partial differential equations, the inversion integral, applications to heat conduction, mechanical vibrations, and other problems. Prerequisite: Mth 202 or 218.
MTH 471. Topology
Calculus of point sets. Hausdorff and other topological spaces. Completeness, compactness, metrics, Euclidean spaces, connectedness, partial ordering, axiom of choice, homeomorphisms and continuous functions. Prerequisite: Mth 218. Second Term, Each Year

MTH 481. Mathematical Logic
See Cps 481. Prerequisite: Mth 381 or 390. First Term, Each Year

MTH 482. Automata Theory
See Cps 482. Prerequisite: Mth 481. Second Term, Each Year

MTH 490. Readings in Mathematics
Directed readings and discussion of selected topics in mathematics. Offered only on an individual basis and only with the approval of the Departmental Chairman. May be taken more than once for additional credit.

Mechanical Engineering (MEE)

Howard Smith, Chairman
Associate Professors: Csaky, Nielsen, Ray, Smith, Wilder
Assistant Professors: Horwedel, Knight, Minardi, Schwartz, Thorne
Instructor: Chuang

MEE 206L. Engineering Graphics I
Fundamentals of engineering graphics and the part that graphical communication plays in engineering.

MEE 207L. Engineering Graphics II
Training in the analysis and graphical solution of fundamental problems involving three dimensions and the application of these solutions to engineering problems. Prerequisite: Mee 206L.

MEE 211. Materials and Processes
Atomic structure, crystalline nature of solids, bonding and imperfections in crystals. Wear in metal cutting and tool life, economics of machining. Cold working processes. Prerequisites: Chm 124, Mee 206L, Phy 206; Corequisite Mee 211L.

MEE 211L. Materials and Processes Laboratory
Study of machining processes and machine tools; shaping and planing, drilling, turning, milling, broaching and grinding. Basic experiments in metal cutting. Experiments in workshop metrology. Corequisite: Mee 211.

MEE 301-302. Thermodynamics I and II
The general laws of thermodynamics; properties and processes of gases, vapor, and gas-vapor mixtures; cycles; and the flow of fluids. The application of thermodynamics to machines such as engines, turbines and compressors. Prerequisites: Mth 218, Phy 208.

MEE 303. Metallurgy
Atomic structure, crystal structure and crystal imperfections (applied to metallic materials). Phase diagrams, physical properties, steel and its heat treatment, casting, mechanical working, joining, powder metallurgy. Prerequisite: Mee 211; Corequisite: Egm 303.
MEE 303L. METALLURGY LABORATORY
Heat treatment, hardness testing, preparation of specimens for metallurgical examinations, use of the metallograph, examination of metallic structures, thermal analysis. Corequisite: Mee 303.

MEE 305L. MECHANICAL ENGINEERING LABORATORY I
Basic experiments designed to teach theory, techniques of application and calibration of instruments for the measurement of pressure, temperature, volume, fluid flow and power. Corequisite: Phy 208.

MEE 308. FLUID MECHANICS
Laws and theory relative to compressible and incompressible fluids; momentum relations for steady flow; resistance of immersed bodies; dynamic lift and propulsion; lubrication; pumps: turbines: fluid couplings: fluid power and control systems. Prerequisite: Mee 301.

MEE 310. THERMAL ENGINEERING I
Steam and gas power plants, including history of development and study of modern plant facilities. Fuels, combustion processes, energy balances and an introduction to nuclear engineering. Prerequisites: Chm 124, Mee 301; Corequisite: Mee 308.

MEE 311. THEORY OF MACHINES
Linkages, cam design, spur gears, helical, bevel and worm gears. Differentials, computing mechanisms, introduction to synthesis, kinematics of machinery, static and dynamic forces, balancing. Prerequisite: Egm 301; Corequisite: Mee 311L.

MEE 311L. THEORY OF MACHINES LABORATORY
Laboratory exercises based on the foregoing principles. Corequisite: Mee 311.

MEE 406L. MECHANICAL ENGINEERING LABORATORY II
Tests of a boiler and steam turbine installation, steam engines, internal combustion engines and pumps and heat transfer devices. Corequisite: Mee 417.

MEE 407-408. MACHINE DESIGN I AND II
Analysis and design of machine members and mechanical systems. Development of creative ability and engineering judgment. Prerequisites: Egm 308, Mee 311; Corequisites: Egm 304, Mee 303, Mee 407L-408L.

MEE 407L-408L. MACHINE DESIGN LABORATORY I AND II
Design problems based on foregoing principles. Corequisites: Mee 407-408.

MEE 410. HEAT TRANSFER
Laws of conduction, radiation and convection; heat transfer to boiling liquids and condensing vapors; steady state or variable flow; heat transfer. Prerequisites: Mee 301, Mee 308, Mth 341.

MEE 412L. FUELS AND LUBRICANTS ANALYSIS LABORATORY
Heating value of fuels; analysis of combustion products; determination of selected physical qualities of oils and lubricants; measurement of fluid flow. Corequisite: Mee 302.

MEE 414. SEMINAR
Attendance required by all Mechanical Engineering Junior and Senior students with only Seniors registering for credit.
Mee 417. THERMAL ENGINEERING II
THREE CREDIT HOURS
A study of spark and compression ignition engines, reaction engines, gas turbine power plants and fuel requirements for each. Processes of combustion and energy release. Prerequisites: Mee 302, Mee 310; Corequisite: Mee 412L.

Mee 418. ADVANCED FLUID MECHANICS
THREE CREDIT HOURS
Dynamics of fluid flow. Compressible fluids. Theorems of conservation of mass and momentum. Laws of thermodynamics as applied to fluid flow. One dimensional isentropic flow; normal shock; friction; heat transfer. Prerequisites: Mee 301, Mee 308, Mth 341.

Mee 419. MECHANICAL ENGINEERING ANALYSIS
TWO CREDIT HOURS
The application of mathematics to the solution of engineering problems. Prerequisites: Egm 303, Mee 311; Corequisites: Mee 410, Mee 418.

Mee 423. HEATING, AIR CONDITIONING AND REFRIGERATION
THREE CREDIT HOURS
Determination of heating and cooling loads; warm air, steam and hot water heating systems. A study of measurement and control of temperature, humidity and purity of air. A study of refrigeration methods, processes and cycles. Prerequisite: Mee 302; Corequisite: Mee 410.

Mechanical Engineering Electives

Mee 416. MECHANICAL VIBRATIONS
TWO CREDIT HOURS
Vibrations without damping; damped vibrations; vibration of systems with several degrees of freedom; vibration isolation and absorption; theory of balancing; mechanical and electrical models of vibration systems. Prerequisites: Mee 311, Mth 341.

Mee 416L. MECHANICAL VIBRATIONS LABORATORY
ONE CREDIT HOUR
Laboratory exercises based on the foregoing principles. Corequisite: Mee 416.

Mee 421. TURBO-MACHINERY
THREE CREDIT HOURS
Theory applicable to turbines, compressors and pumps. Dimensional analysis concepts; energy transfer in centrifugal and axial flow turbines, compressors and pumps. Thermodynamic relationships in turbomachinery processes. Prerequisites: Mee 302, Mee 308.

Mee 431. ADVANCED DYNAMICS OF MACHINERY
THREE CREDIT HOURS
Application of vector analysis to kinematics and dynamics. Advanced problems in mechanisms and dynamics of mechanical systems. Vibrations analysis. Prerequisites: Egm 303, Mee 311.

Mee 499. SPECIAL PROBLEMS IN MECHANICAL ENGINEERING
TWO TO SIX CREDIT HOURS
Particular assignments to be arranged and approved by Chairman of the Department.
Medical Technology (Met)

Dr. Abramson, Chairman (St. Elizabeth Hospital)
Dr. McMillan, Chairman (Good Samaritan Hospital)
Dr. Oosting, Chairman (Miami Valley Hospital)

The work of the senior year in Medical Technology is done at Miami Valley Hospital, St. Elizabeth Hospital or Good Samaritan Hospital. The courses are conducted by the respective hospital faculties.

**MET 481. Introduction to Medical Technology**
Four credit hours
A study of basic hospital and laboratory routine, Medical Terminology, Laboratory Ethics, Laboratory Mathematics.

**MET 482. Urinalysis and Renal Function**
Four credit hours
Instruction in various methods of performing these tests with correlation based on anatomical and physiological functions of the organs.

**MET 483. Hematology**
Six credit hours
Instruction in the morphology of the blood and blood-forming tissues and practice in the association studies. Correlation of findings based on anatomical and physiological functions of the cellular components of the blood.

**MET 484. Bacteriology, Parasitology, Mycology**
Seven credit hours
Instruction in various methods of microbiological examination of the body tissues, fluids, secretions, and excretions; tests for reaction of the body to specific diseases; tests for and study of various parasites found as pathologic organisms in the human body.

**MET 485. Chemistry and Gastric Analysis**
Eight credit hours
Instruction in biochemical analysis and the chemical changes in the body due to disease; procedures for analyzing gastric fluid.

**MET 486. Histology and Cytology**
Three credit hours
Instruction in various methods of preparation for sectioning and staining of tissues in preparation for microscopic examination.

**MET 487. Serology and Spinal Fluid**
Three credit hours
Instruction in antigen-antibody reaction in vitro and the performance of the associated tests; procedures for analyzing cerebrospinal fluid.

**MET 488. Blood Banking**
Three credit hours
Instruction in blood typing and crossmatching of blood for administration of transfusions. Techniques in withdrawing blood from donors is included.

**MET 489. Laboratory Management**
No credits
The student familiarizes himself with the ordering of supplies, office procedures, and with basal metabolism techniques.

**MET 490. Normal and Pathologic Physiology**
No credits
A series of lectures stressing the correlation of theory and practical laboratory testing as it relates to disease states.
Military Science (MIL)

Col. Uel W. French, Chairman

Professor: French

Assistant Professors: Anderson, Cromartie, Hackney, Hernaiz, Meyer, Ondecker, Weiher

Part-time Instructors: Ensley, Martinez, McDonald, Robertson, Thompson, Whitby, Sheehan, Daigle, Barlow

MIL 101-102. FIRST YEAR BASIC COURSE

TWO CREDIT HOURS

Training provided in those subjects common to all branches of the Army, such as U.S. Army and National Security: individual weapons and marksmanship; organization of Army and R.O.T.C.; counterinsurgency; leadership laboratory.

MIL 201-202. SECOND YEAR BASIC COURSE

TWO CREDIT HOURS

Continuation of above course. Subjects include: American military history; map and aerial photograph reading; basic tactics; counterinsurgency; leadership laboratory. Prerequisite: Mil 101-102.

MIL 301-302. FIRST YEAR ADVANCED COURSE

FOUR CREDIT HOURS

Subjects: Military teaching principles; service branches; tactics-communications; precamp orientation; counterinsurgency; leadership; summer camp. Prerequisites: Mil 101, 102, 201, 202, pass physical, selection.

MIL 401-402. SECOND YEAR ADVANCED COURSE

FOUR CREDIT HOURS

Continuation of above. Subjects: Logistics; Army administration; military justice; operations; service orientation; U.S. in world affairs; counterinsurgency; leadership. Prerequisites: Mil 301-302 and Summer Camp.

Music (Mus)

Maurice R. Reichard, Chairman

Professors: Reichard, Thomas

Associate Professors: Tagg, Zech

Assistant Professor: Weaver

Instructor: Ritter

Part-time Instructors: Blagg, Christopher, Enoch, Heisey, Katz, Kline, Miles, Minton, Reger, Schneider, Wiggenhorn

Mus 102. MUSIC LITERATURE AND APPRECIATION

TWO CREDIT HOURS

A study of the masterpieces of music, with special reference to the listener; includes compositions of value to the classroom teacher. For students in elementary education. Not open to students who have credit for Mus 105.

Mus 105. MUSIC APPRECIATION

TWO CREDIT HOURS

A study of the masterpieces of music aimed at developing a broad understanding and an intelligent discrimination of music. For music majors and students in Music Education. Not open to students who have credit for Mus 102.

Music Education (MEd)

Michael W. Frey, Chairman

Professor: Frey

Assistant Professors: Anderson, Cromartie, Hackney, Hernaiz, Meyer, Ondecker, Weiher

Part-time Instructors: Ensley, Martinez, McDonald, Robertson, Thompson, Whitby, Sheehan, Daigle, Barlow

MEd 101-102. FIRST YEAR BASIC COURSE

TWO CREDIT HOURS

Training provided in those subjects common to all branches of the Army, such as U.S. Army and National Security: individual weapons and marksmanship; organization of Army and R.O.T.C.; counterinsurgency; leadership laboratory.

MEd 201-202. SECOND YEAR BASIC COURSE

TWO CREDIT HOURS

Continuation of above course. Subjects include: American military history; map and aerial photograph reading; basic tactics; counterinsurgency; leadership laboratory. Prerequisite: Mil 101-102.

MEd 301-302. FIRST YEAR ADVANCED COURSE

FOUR CREDIT HOURS

Subjects: Military teaching principles; service branches; tactics-communications; precamp orientation; counterinsurgency; leadership; summer camp. Prerequisites: Mil 101, 102, 201, 202, pass physical, selection.

MEd 401-402. SECOND YEAR ADVANCED COURSE

FOUR CREDIT HOURS

Continuation of above. Subjects: Logistics; Army administration; military justice; operations; service orientation; U.S. in world affairs; counterinsurgency; leadership. Prerequisites: Mil 301-302 and Summer Camp.
MUS 141. **INTRODUCTION TO MUSIC**
Two credit hours
For the student with no previous experience with the theory of music. Notation of music, key signatures, fundamental harmonic progression, and an introduction to the piano keyboard. Elementary ear training and dictation.

MUS 151-152. **FIRST YEAR THEORY**
Eight credit hours
Formation of scales and intervals; progression of triads and seventh chords; simple modulation; basic technique of dictation, sight singing, and rhythmic reading. Prerequisite: Knowledge of the fundamentals of music.

MUS 183. **TEACHING MUSIC IN PAROCHIAL SCHOOLS—PRIMARY GRADES**
Three credit hours
Reading and notation of music is developed along with key signatures, sight singing in major and minor modes, ear training and dictation. Materials for grades 1, 2, 3, and their presentation.

MUS 231. **TEACHING MUSIC IN GRADES 1, 2, AND 3**
Two credit hours
Materials to be used in music for the first three grades and their presentation; problems and possibilities of the primary school music program. Prerequisite: Knowledge of the fundamentals of music equivalent to MUS 141.

MUS 232. **TEACHING MUSIC IN GRADES 4, 5, AND 6**
Two credit hours
Materials to be used in music for the intermediate grades and their presentation; problems and possibilities of the elementary school music program. Prerequisite: Equivalent of MUS 141.

MUS 233-236. **VOICE CLASS**
Four credit hours
Principles of good singing; development of the voice; vocal literature. May be repeated to a total of eight credit hours. Minimum of four students required for class. Prerequisite: Permission of the instructor.

MUS 245-246. **GREGORIAN CHANT**
Four credit hours
An introduction to Gregorian Chant. Principles of free rhythm; modal characteristics; fundamentals of choronomy. Offered only at Marianist College and at Regina Heights.

MUS 251. **SECOND YEAR THEORY**
Four credit hours
Continuation of MUS 151-152; more advanced sight-singing and dictation; analysis and writing of advanced seventh chords, modulation. Non-harmonic tones, and altered chords. Prerequisite: MUS 152.

MUS 262. **MUSICAL FORM**
Two credit hours
A study of the structural designs used in musical composition; a study of all polyphonic, homophonic, and the larger forms. Prerequisite: MUS 251.

MUS 272. **KEYBOARD HARMONY**
Two credit hours
A study of diatonic chord progressions, including simple modulations, at the keyboard; their use in accompaniment of melodies; improvisation; modern chord terminology. Prerequisite: MUS 251; four credit hours in Piano.

MUS 283. **TEACHING MUSIC IN PAROCHIAL SCHOOLS—INTERMEDIATE GRADES**
Three credit hours
Continued note reading, modulation to dominant and subdominant, introduction to
the piano keyboard, two- and three-part singing. Materials for grades 4, 5, 6, and their presentation. Prerequisite: Mus 183.

**Mus 301. History of Music I**
Development of music, instruments, forms, sacred and secular, from the earliest records through the Classical period. The relationship of music to the other arts and to broad movements in society and civilization.

**First Term, Each Year**

**Mus 302. History of Music II**
Music of the nineteenth century; Romanticism; impressionism; nationalism; beginnings of the modern period. Relationship of music to social and cultural trends in Europe and America during the last one hundred and fifty years.

**Second Term, Each Year**

**Mus 303. Modern Music**
A survey of contemporary music; its relationship to modernism in the other arts and to present-day society; American music.

**Second Term, 1966-1967**

**Mus 311-312. Eighteenth Century Counterpoint**
A study of the contrapuntal technique of the eighteenth century particularly as used in the instrumental works of Johann Sebastian Bach. Original compositions in the forms of the Invention and the Fugue. Prerequisite: Mus 251.

**Mus 312. Stringed Instruments**
Class instruction in stringed instruments; teaching of stringed instruments in the schools.

**First Term, Each Year**

**Mus 313. Reed and Woodwind Instruments**
Class instruction in reed and woodwind instruments; teaching of reeds and woodwinds in the schools.

**Second Term, Each Year**

**Mus 314. Brass Instruments**
Class instruction in brass instruments; teaching brass instruments in the schools.

**First Term, Each Year**

**Mus 315. The Opera**
A survey of operas written in classical, romantic, and modern periods; particular attention is given to works currently performed by major opera companies.

**Evening**

**Mus 316. Instrumentation and Orchestration**
Scoring for instruments in small combinations and full orchestra and symphonic band; emphasis on the needs of school music organizations. Prerequisite: Junior standing in music and permission of the instructor.

**Second Term, Each Year**

**Mus 317. Percussion Instruments**
Class instruction in percussion instruments; teaching of percussion instruments in the schools.

**Second Term, Each Year**

**Mus 318. Vocal Music in the High School**
Materials used in the general music class and their presentation; glee club, choir, voice class, vocal ensembles. Prerequisite: Junior standing in Music Education.

**Second Term, Each Year**
MUS 332. THE SCHOOL BAND AND ORCHESTRA
A general course in the organization and teaching of instrumental music in the schools; materials; survey of equipment and facilities necessary for the instrumental music program. Prerequisite: Junior standing in Music Education. (First Term, Each Year)

MUS 335. MUSIC IN THE ELEMENTARY GRADES
The music education program in the elementary grades; materials and their presentation; problems and responsibilities of the music teacher. Prerequisite: Sophomore standing in music education. (Second Term, Each Year)

MUS 341. Conducting
Methods of controlling tempo and the dynamic elements of musical performance groups; practical experience in experimental campus organizations. Prerequisite: Junior standing in Music; permission of the instructor. (First Term, Each Year)

MUS 345. GREGORIAN CHANT PRINCIPLES
A study of Gregorian notation, free rhythm and fundamentals of chironomy; the eight Church modes; the principal Masses of the Kyriale; for the student with little or no previous knowledge of the music of the Catholic Church. (Second Term—Evening)

MUS 383. TEACHING MUSIC IN PAROCHIAL SCHOOLS—JUNIOR HIGH SCHOOL
Repertoire in three and four parts which exploits the musical skills developed in the first six grades. Procedure for handling the problem of the boy's changing voice. (Three Credit Hours)

MUS 411-412. MUSICAL COMPOSITION
Prerequisites: Mus 251, Mus 311-312 or Mus 417-418; other prerequisites to be determined in consideration of the aims and objectives of the student; permission of the instructor. (Four Credit Hours)

MUS 415-416. 19TH AND 20TH CENTURY STYLES
Analysis of the harmonic and contrapuntal devices used after Bach with special emphasis on contemporary music and composers. Prerequisite: Junior standing in music; permission of the instructor. (Four Credit Hours)

MUS 417-418. SIXTEENTH CENTURY COUNTERPOINT
A study of the medieval modes and the vocal polyphony of the motet and the Mass, up to and including five-part writing; original student compositions. Prerequisite: Permission of the instructor. (Four Credit Hours)

MUS 421-422. LABORATORY IN ORCHESTRATION
Advanced work in orchestration; special problems in scoring for full orchestra, symphonic band or dance orchestra; transcription of orchestral works for band. Prerequisite: Mus 322, permission of instructor. (Four Credit Hours)

MUS 425-426. PROBLEMS IN INSTRUMENTAL MUSIC
Practical problems and experience in instrumental music in teaching or other professional situations approved by the Department of Music. Prerequisite: Senior standing in Music or in Music Education. (Four Credit Hours)
**APPLIED MUSIC**

Credit for private instruction in piano, organ, violin, voice, stringed or wind instruments is allowed at the rate of two credit hours per lesson a week. In order to register for credit toward a major in Applied Music, students must have studied sufficient preparatory material. In piano, this should include ability to play major and minor scales in a moderate tempo in parallel motion, ability to play major and minor triads in arpeggio form in all keys. The student should have studied Hanon, Vol. I; Pischna; Czerny, Op. 299, or their equivalent; some of the Mozart and Haydn sonatas; Mendelssohn "Songs Without Words"; Little Preludes and Fugues or Two- and Three-part Inventions by Bach; "Lyric Pieces" by Grieg, or their equivalent. To study organ, the student should have previous study in piano amounting to the Two- and Three-part Inventions by Bach; Sonata No. 1 in f Minor, Op. 2, by Beethoven; Nocturne in f Minor, Op. 55, by Chopin or their equivalent.

**APPLIED MUSIC FEES:**

- Piano, semester fee .......................................................... $20.00
- Organ, semester fee ........................................................... 20.00
- Voice, semester fee .......................................................... 20.00
- Violin, Cello, Bass, term fee .............................................. 40.00 to 64.00
- Reed, Woodwind, Brass Instruments, term fee ...................... 40.00

"Laboratory fees" ($20.00) for instruction in piano, voice or organ apply to students in music or music education who are studying with full-time members of the Department of Music staff. **Fees for instruction in instruments of the Band or Orchestra are based on the private instruction fee of the individual instructor. With permission of the Chairman of the Department of Music, these fees may be paid directly to the instructor and not included in the amounts paid to the University treasurer at time of registration."
ENSEMBLES

Orchestra (Dayton Philharmonic Training Orchestra)
Band (Marching Band, Concert Band)
Choir (Mixed Chorus)
Glee Clubs (Men's Glee Club, Women's Glee Club)
Ensembles (Brass Choir, String, Woodwind Ensembles)

Credit may be earned in Orchestra, Band, Choir, Glee Club and Ensembles by students enrolled in music courses. Credit will be allowed at the rate of one-half credit per semester in each organization, and is required of students majoring in Music or qualifying for degrees of Bachelor of Music or Bachelor of Science in Music Education. Students do not register for credit in musical ensembles and no grades are given. Granting of such credit, however, will entail attendance at rehearsals and performances in conformity with policies applying to regular academic courses. The amount of credit required is to be determined by the needs and experience of the student, and/or State requirements in music education. Maximum: Toward Music major in B.A. degree, or as elective in other degrees: four credit hours; toward B.M. or B.S. in Music Education degrees, six credit hours. Prerequisite: Permission of the Director.
Philosophy (PHL)

Dr. Richard R. Baker, Chairman

Professors: Baker, Elbert, Harkenrider

Associate Professors: Dieska, Rhodes

Assistant Professors: Baltazar, Bloemer, Bonnette, Cartagenova, Chrisman, Dombro, Edelenyi

Instructors: Barbic, Casaletto, Greene, Hoy, Kunkel, Murray, Seman


Courses required for a minor: Phl 105, 207, 303, 306, 402, 408, 404 (Non-Cath.).

Students should consult the chairman concerning electives.

Phl 105. INTRODUCTION TO PHILOSOPHY AND LOGIC
THREE CREDIT HOURS
An exposition of the distinctive nature of philosophy by a discussion of its persistent problems with reference to their first appearance among the Greek Philosophers. A review of the essentials of conventional logic.

Phl 207. PHILOSOPHICAL PSYCHOLOGY
THREE CREDIT HOURS
Nature of life in general; plant soul; brute animal soul; knowledge and appetite in man; human intellect and will; intellectual and moral habits; nature, origin and immortality of the human soul. Required of all sophomores. Prerequisite: Phl 105.

Phl 303. COSMOLOGY
THREE CREDIT HOURS
The nature and properties of mobile being; the hylomorphic theory of bodies; nature of quantity; the analysis of physical motion; qualities of bodies; space and time; origin and destiny of the universe. Prerequisite: Phl 207.

Phl 306. EPISTEMOLOGY
THREE CREDIT HOURS
A critical examination of the validity of sensory and intellectual knowledge; the problem of the trustworthiness of the senses; the problem of the universal; skepticism, idealism and subjectivism. Prerequisite: Phl 207.

Phl 402. GENERAL METAPHYSICS
THREE CREDIT HOURS
An analysis of real being; analogy of being; transcendentals; application of act and potency to essence and existence, substance and accident, the one and the many, causality; special classes of being. Prerequisite: Phl 306.

Phl 403. NATURAL THEOLOGY
THREE CREDIT HOURS
The existence and nature of God as discoverable by natural reason; the divine causality; the relation of the universe to God; the problem of evil; criticism of the arguments advanced by the atheist and the agnostic. Prerequisite: Phl 402.

Phl 404. ETHICS
THREE CREDIT HOURS
Happiness and ultimate end of man; human act; norms and determinants of morality; eternal and natural law; conscience; moral virtues; rights and duties. Required of all non-Catholics. Prerequisite: Phl 402.
PHL 406. **History of Greek Philosophy**
A survey of the beginnings and later development of philosophical speculation by the Greek philosophers from Thales to Plotinus. Prerequisite: Phl 402. First Term, Each Year

**THREE CREDIT HOURS**

PHL 407. **History of Medieval Philosophy**
A survey of the course of philosophical thought from the Patristic Period to the end of the Scholastic era in the 14th century. Prerequisite: Phl 402.

**THREE CREDIT HOURS**

First Term, Each Year

PHL 408. **History of Modern Philosophy**
A consideration of the rise and development of modern philosophic thought from the Renaissance to the 20th century. Prerequisite: Phl 402.

**THREE CREDIT HOURS**

Second Term, Each Year

PHL 410. **History of Political Philosophy**
A study of the principal political opinions of the Western philosophers; Plato, Aristotle, and the leading Roman, medieval, and modern political philosophers. Prerequisite: Phl 402. Required of all political science majors.

**THREE CREDIT HOURS**

PHL 414. **Philosophy of Law**
Nature of law; natural and positive law; implications and juridical origin and effect of law; justice; genetic origin of law. Prerequisite: Phl 402.

**THREE CREDIT HOURS**

Second Term, Each Year

PHL 430. **Philosophy of Plato**
The purpose of the course is to give an insight into the philosophy of Plato by reading, analyzing and commenting on four of Plato's dialogues: Phaedo, Symposium, Protagoras and the Republic. Prerequisite: Phl 402.

**THREE CREDIT HOURS**

First Term, 1966-1967

PHL 432. **Philosophy of Aristotle**
Readings and classroom discussion of selections from the basic works of Aristotle, including the Physics, Metaphysics, Ethics and Politics. Prerequisite: Phl 402.

**THREE CREDIT HOURS**

Second Term, 1966-1967
**PHL 434. St. Thomas Aquinas**

This course offers St. Thomas' teachings on God, Creation, Man, Law, Grace, Habit, Virtue and kindred subjects, derived from the Summa Theologica and the Summa Contra Gentiles. Prerequisite: Phl 402.

**PHL 450. Problems in Philosophy**

The objective of this seminar is to gain insight into the perennial and contemporary problems of philosophy. Permission to take this course must be obtained from the instructor. Prerequisite: Phl 402.

**PHL 455. Philosophy of Art**

An analysis of the nature of art, beauty, and the aesthetic judgment in the light of the philosophical principles and distinctive conditions found in each. A discussion of the permanent and inward relationship of the values of truth, goodness and beauty.

**PHL 460. Business Ethics**

Application of philosophy in the area of employee discipline with emphasis on rights, duties, and the purpose of discipline. Examination of arbitration cases in discipline.

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**Physics (Phy)**

Dr. Joseph J. Kepes, Chairman

*Professors:* L. Mann, Rambauske

*Associate Professors:* Kepes, Schick

*Assistant Professors:* Cothren, Crivello, Graham, Hieber, Kendziorski, R. Mann, Schneider, Yanev

A student intending to specialize in this field should consult with the chairman of the department to arrange his courses.

**PHY 105. The Physical Sciences**

Four credit hours

Applies fundamental principles of physics to physics, chemistry, astronomy, meteorology. Gives the student a broad understanding of man's physical environment. Four class periods per week. Does not satisfy science requirement in Arts and Sciences.

**PHY 151. General Physics**

Three credit hours

Designed to give (non-science) students an appreciation of physics, and approaches mechanics and heat from a point of view with a minimum of mathematics. Three class periods per week. Prerequisite: Elementary algebra.

**PHY 151L. General Physics Laboratory**

One credit hour

A course designed to accompany Phy 151. Designed to verify and apply theory through a selected program of experiments. Corequisite: Phy 151. One two-hour period per week.

**PHY 152. General Physics**

Three credit hours

This course is a continuation of Phy 151 and includes electricity, light and sound with some discussion of the most recent developments of physics. Three class periods per week. Prerequisite: Phy 151.
PHY 152L. **General Physics Laboratory**
A course designed to accompany Phy 152. Designed to verify and apply theory through a selected program of experiments. Corequisite: Phy 152. One two-hour period per week.

**Second Term, Each Year**

**Three Credit Hours**

PHY 201. **General Physics**
A discussion of mechanics and heat without the formalism of the calculus. Three class periods per week.

PHY 201L. **General Physics Laboratory**
Accompanying laboratory course to Phy 201. Designed to verify and apply theory, and to teach scientific techniques. One two-hour period per week.

**Three Credit Hours**

PHY 202. **General Physics**
A continuation of Phy 201, covering the fields of magnetism, electricity, sound and light. Three class periods per week. Prerequisite: Phy 201.

PHY 202L. **General Physics Laboratory**
A continuation of Phy 201L, with experiments in magnetism, electricity, sound and light. One two-hour period per week. Prerequisite: Phy 201L.

**Nine Credit Hours**

PHY 206, 207, 208. **General Physics**
This is a three-semester course in the fundamentals of physics intended for students preparing to major in chemistry, engineering, mathematics or physics. Three periods per week. Corequisite: Mth 216 or 201.

PHY 206L, 207L, 208L. **General Physics Laboratory**
These courses are required concurrently with the lecture courses Phy 206, 207, 208. One two-hour period per week.

**Three Credit Hours**

PHY 209. **Modern Physics**
Basic elements of modern physics. Serves as an introduction to advanced atomic topics or as a terminal course for science, engineering, or other interested students. Prerequisites: Phy 206, 207; Corequisite: Phy 208.

**Second Term, Each Year**

**Three Credit Hours**

PHY 301. **Thermodynamics**
The general laws of the thermodynamics; entropy, isothermal and adiabatic processes, the cycles; flow of fluids. Three class periods per week. Prerequisites: Mth 218, Phy 208.

**First Term, Each Year**

**Three Credit Hours**

PHY 303. **Intermediate Mechanics I**
The fundamental concepts of mechanics. The topics covered include virtual work, kinematics, and particle dynamics. Three class periods per week. Prerequisites: Phy 206, 207, 208, Mth 218.

**First Term, Each Year**

**Three Credit Hours**

PHY 304. **Intermediate Mechanics II**
A continuation of Phy 303. Topics include dynamics of systems of particles, rigid bodies, central forces, accelerating systems, and the mechanics of continua. Three class periods per week. Prerequisite: Phy 303.

**Second Term, Each Year**

**Three Credit Hours**

PHY 311. **Atomic Physics**
The electron, photoelectric and thermionic emission of electrons, atomic and molecular
structure and spectra, X-rays, introduction to wave mechanics. Three class periods per week. Prerequisite: Phy 209 or consent of instructor.  

PHY 314. ELECTRONICS FOR SCIENTISTS  
Terminal behavior of vacuum tube and semi-conductor devices; application to basic rectifier, amplifier, oscillator and control circuits. Prerequisites: Phy 208, Mth 301 or 341; Corequisite: Phy 314L.

PHY 314L. ELECTRONICS FOR SCIENTISTS LABORATORY  
Laboratory construction and testing of the basic vacuum tube and solid-state electronic circuits.

PHY 321. NUCLEAR PHYSICS  
Radioactivity, particle accelerators, the interaction of nuclear radiation with matter, particle detection, fission, and cosmic rays. Three class periods a week. Prerequisite: Phy 311 or consent of instructor.

PHY 351. INTRODUCTION TO ASTRONOMY  
History of astronomy, apparent motions of celestial bodies, planetary systems, spectral classifications, multiple systems, variable stars, structure of the Universe. Prerequisites: Mth 202 or Mth 218, Phy 208.

PHY 361. PRINCIPLES OF REACTOR PHYSICS  
Chain reactors. Slowing down theory, diffusion equations, space distribution, criticality, group theories. Laboratory experiments accompany the lecture. Prerequisites: Phy 208, Mth 201 or consent of instructor.

PHY 404. PHYSICAL OPTICS  
This course discusses the wave theory of light, interference, diffraction, dispersion, polarization, velocity of light and electromagnetic theory of light. Three class periods per week. Prerequisites: Mth 218, Phy 206, 207, 208.

PHY 408. INTERMEDIATE ELECTRICITY AND MAGNETISM I  
Electrostatics, Coulomb's and Gauss' laws and the Laplace and Poisson equations, dielectrics, electrostatic energy methods, scalar and vector potential. Three class periods per week. Prerequisites: Phy 206, 207, 208.

PHY 409. INTERMEDIATE ELECTRICITY AND MAGNETISM II  

PHY 411. THEORETICAL PHYSICS I  
Calcitational techniques in Modern Physics, complex variable theory, dispersion relations, linear vector spaces, operators, matrix mechanics, eigenvalue equations. Prerequisite: Phy 208; Corequisite: Mth 301.

PHY 412. THEORETICAL PHYSICS II  
Orthogonal functions, Dirac delta function, Laplace's equation, Poisson's equation, D'Alembert's equation, transformation theorems, Green's function. Prerequisite: Phy 208; Corequisite: Mth 301.
Phy 414. **Advanced Electronics for Scientists**

Continuation of Phy 314. High frequency techniques, modulation and detection, pulse generators, special circuits; application to counters, computer circuits, and experimental instrumentation and control problems. Prerequisites: Phy 314; Corequisite: Phy 414L.

Phy 414L. **Advanced Electronics for Scientists**

Individual student projects in the electronic instrumentation of problems in the physical, biological, and computer sciences. Corequisite: Phy 414.

Phy 420. **Introduction to Solid State**

Classification of solids, definition of crystals and crystal structures, survey of lattice properties. Free electron theory, band theory of solids, semi-conductors and crystal imperfections. Prerequisite: Phy 311 or consent of instructor. 

Phy 431. **Advanced Laboratory I**

A laboratory course in which the student performs advanced experiments in optics, mechanics, electricity and magnetism, and modern physics. One four-hour period per week. Corequisite: an advanced course in physics. 

Phy 432. **Advanced Laboratory II**

A continuation of Phy 431 but may be taken without having had Phy 431. One four-hour period per week. Corequisite: an advanced course in physics. 

Phy 433. **Advanced Laboratory III**

A continuation of Phy 431, 432, but may be taken without having had either. One four-hour period per week. Corequisite: an advanced course in physics.
PHY 440. X-RAYS

PHY 450. ADVANCED ASTRONOMY
Orbits, celestial mechanics, spectroscopic theory and analysis, ionization theory, radiation transfer, nuclear reactions, atmospheres, star models. Three class periods per week. Prerequisites: Mth 301, Phy 301, 303, 311, 351. Second Term, 1966-1967

PHY 460. SEMINAR
Weekly meetings of students and members of the staff for the presentation of papers by students and lectures by invited physicists. One class period per week for Junior and Senior years.

PHY 499. SPECIAL PROBLEMS
Laboratory or library work in various topics of physics. Given with the permission of the chairman of the department.

Political Science (Pol)

Dr. Norbert C. Brockman, S.M., Chairman

Professor: Rose
Associate Professor: Liebler
Assistant Professors: Brockman, Patyk
Part-time Instructors: Simpson, Welch

Required courses for a major in Political Science are: Pol 201, 302, 314, 411, 417, 421. Political Science 201 is a prerequisite and may not be applied toward a major or minor. Twenty-seven credit hours are required for a major in Political Science, distributed through the following areas: Local Government (Pol 302); National Government (Pol 201, Pol 411); International Relations (Pol 314); Political Philosophy (Pol 417); Seminar (Pol 421). Electives in Pol 300-400 courses must total at least nine credit hours. A minor in Political Science requires prerequisite Pol 201, plus twelve credit hours from Pol 300-400 courses.

POL 201. AMERICAN GOVERNMENT—NATIONAL
A functional study of the origin, organization, and operations of the national government with a rapid survey of the American system of state and local governments.

POL 301. INTRODUCTION TO LAW
Brings the student into personal relationship with the profession of Law. Guest lecturers from the Bar Association, the Courts, and Schools of Law. Visits to the Courts. Second Term, Each Year

POL 302. OHIO GOVERNMENT—STATE AND LOCAL
An examination of the state, and local governments of Ohio with special reference to Montgomery County and the City of Dayton.
POL 304. **COMPARATIVE GOVERNMENT**
A comparison of the governments of the United Kingdom, France, Germany, and others. Operation of legislative, administrative and judicial institutions.  
*Second Term, Each Year*

POL 306. **INTERNATIONAL LAW**
An analysis of the development of international law, its theory and application to the various phases of international relations.  
*First Term, Each Year*

POL 310. **POLITICAL PARTIES**
A descriptive analysis of the nature and interaction of parties, pressure groups, and the functioning of public opinion on the national and state level. Prerequisite: Pol 201.  
*First Term, 1966-1967*

POL 312. **NATIONAL LEGISLATIVE PROCESS**
A detailed treatment of the organization, powers, functions, procedures of, and influences on Congress in federal legislation. Prerequisite: Pol 201.  
*Second Term, Each Year*

POL 314. **INTERNATIONAL RELATIONS**
An exposition of the dynamic forces influencing nations in their conduct of world affairs.  
*Second Term, Each Year*

POL 316. **INTERNATIONAL ORGANIZATIONS**
A study of origins and evolution of organized international collaboration with an emphasis on the United Nations.  
*Second Term, Each Year*

POL 331. **BASIC ENGLISH AND AMERICAN DOCUMENTS**
An analysis and appreciation of the great political documents. Prerequisite: Hst 251 and 252.  
*First Term*
POL 401. **The American Presidency**
An expository approach to the United States Presidency, as the most powerful elective political office in the world today. Prerequisite: Pol 201.

**THREE CREDIT HOURS**

**First Term**

POL 404. **The Political and Economic System of the Soviet Area**
A study of the philosophy, structure, and practical operation of the political and economic institutions of the Soviet Union and other countries with a similar system.

**THREE CREDIT HOURS**

**First Term, Each Year**

POL 406. **Geography in International Relations**
This program proposes to include the geopolitical aspects of land, sea, outer space, communications, transportation, military strategy and the contributions of geography to international problems.

**THREE CREDIT HOURS**

**First Term, Each Year**

POL 408. **American Foreign Policy**
An analytic study of policies and methods followed by the State Department in its relations with other countries in its conducting of United States relations. Prerequisite: Pol 201.

**THREE CREDIT HOURS**

**First Term, Each Year**

POL 410. **Public Administration**
A study of basic principles of organization and management in executive departments of government at all levels. Questions of planning, leadership, and control are also considered. Prerequisite: Pol 201.

**THREE CREDIT HOURS**

**First Term, Each Year**
POL 411. THE AMERICAN CONSTITUTION
An exposition of the fundamental principles inherent in the Constitution, Common Law, delegated powers of government, and other areas, with application to contemporary situations. Prerequisite: Pol 201.

POL 414. PHILOSOPHY OF LAW
Nature of law; natural and positive law; implications and juridical origin and effect of law; justice; genetic origin of law. Second Term, Each Year

POL 415. PAN AMERICAN RELATIONS
An examination of the social, cultural, and political relations among the American states with special consideration of recent developments. Second Term, Each Year

POL 417. HISTORY OF POLITICAL PHILOSOPHY
Principal political opinions of the Western philosophers drawn from original sources. Political doctrines of Plato and Aristotle, leading Roman and Medieval thinkers, and modern political philosophies. Accredited in Philosophy. First Term, Each Year

POL 421. GOVERNMENT SEMINAR
Research and conferences in (a) International Affairs or (b) National Government Areas. Prerequisite: Permission of chairman.

POL 422. READINGS AND PROBLEMS IN NATIONAL GOVERNMENT
This is essentially a course to supplement the other courses in the national field. Prerequisite: Pol 201. First Term, 1966-1967

POL 425. LEGAL RESEARCH
Open to Pre-Law students only. A direct preparation for admission to law school. Students are assigned to local law offices and to judicial chambers to learn procedures and to do research. Period: Mon.-Fri. 1:00-4:30 P.M. No other afternoon classes may be scheduled. Prerequisite: Pol 302 and permission of chairman.

POL 471. CATHOLIC POLITICAL THOUGHT
A study of basic Catholic social doctrine, with emphasis on the teachings of recent Popes on political and economic questions and movements, in the light of contemporary Catholic theology. First Term, Each Year

Police Administration (PAD)

PAD 101. POLICE PHYSICAL TRAINING
Replaces Phe 101-102, 201-202 for police officers who have completed an approved police academy program. Elements of first aid and health, Judo instruction, and general physical training.

PAD 200. INTRODUCTION TO POLICE ADMINISTRATION
Principles of organization and management as applied to police administration. Emphasis on management process rather than structures.

PAD 301. CRIMINALISTICS
The application of scientific principles to police work. Students will become familiar with laboratory procedures and basic chemical tests.
PAD 305. Traffic Administration  
Problems of traffic administration and public safety. Accident prevention, licensing, safety education, and traffic engineering.

PAD 310. Prevention and Control of Delinquency and Crime  
Investigatory techniques, cooperation with social agencies, processing and detention, case disposition. Study of practical problems.

PAD 313. Criminal Law and Procedure  
Principles of criminal liability, preparation of case materials, court procedures and case disposition, and basic rules of evidence are considered.

PAD 401. Advanced Police Administration  
Principles of supervision and control procedures. Teaching of police academy programs. Comparative study of police training systems.

PAD 410. Correctional Administration  
The administration of correctional institutions and other detention facilities. Special problems of the mentally disturbed. Rehabilitation and parole administration.

PAD 450. Practicum in Police Administration  
Intensive studies of particular practical problems in police administration. Field trips, lectures, and readings are combined to give both a practical and theoretical orientation.

PAD 460. Research in Police Administration  
Directed research on specific problems, enabling the student to take responsibility for investigating an area of particular interest to him. A field project will be required.

PAD 470. Seminar in Police Administration  
A coordinating seminar to integrate the studies in Police Administration with contemporary social science, with a focus on community mobilization for crime prevention.

Psychology (Psy)

Dr. Anthony Debons  
Professor: Debons

Associate Professors: Hunt, Noland, Rancurello
Assistant Professors: Bower, Davis, Rosa, Shine, Snide
Part-time Instructors: Gallico, Hanes, Hepola, Riley, Scheidler

Psychology majors must complete 29 semester hours, including the required courses as follows: Psy 201, 302, 305, 308, 402 and 480. In addition to these basic courses, the student must elect in consultation with his advisor, a minimum of 12 additional credits in Psychology. All graduating seniors are required to take the senior seminar in Psychology (Psy 480). Majors will be assigned to individual advisors: they should contact the department chairman for assignments as soon as possible. Students with a minor in Psychology are required to complete 15 credit hours in Psychology, including Introductory Psychology.
Psy 201. Introductory Psychology  
Three Credit Hours  
Studies man as an integrated personality including development, motivation, emotion, adjustment, learning, perception, thinking, and the general application of psychological principles to personal, social, and industrial problems.

Psy 205. Practical Psychology  
Three Credit Hours  
Emphasizes the applications of principles of learning motivation, emotions to basic problems of living. Offered for students working for associate degrees in technology or business. It is not equivalent to Psy 201.

Psy 302. Elementary Statistics  
Three Credit Hours  
Measures of central tendency, dispersion, and correlation. Basic concepts involved in estimating parameters and testing hypotheses. Presumes usual high school training in mathematics. Required of all students majoring in Psychology. Prerequisite: Psy 201.

Psy 304. Adolescent Psychology  
Three Credit Hours  
Treats interrelated physical, social, emotional development of adolescents. Child Psychology is recommended as a prerequisite though not required. Prerequisite: Psy 201.

Psy 305. Mental Hygiene  
Three Credit Hours  
Explains the adjustment process through the study of basic needs, emotional maladjustment, psychological mechanisms and psychoneurotic responses. Establishes normal and neurotic criteria of mental health. Prerequisite: Psy 201.

Psy 306. Child Psychology  
Three Credit Hours  
A longitudinal study of childhood from birth to 12 years stressing the importance of developmental sequences in motor, emotional, social, language, intelligence and imaginative life. Concentrates on recent research findings in this field. Prerequisite: Psy 201 or equivalent.

Psy 307. Exceptional Children  
Three Credit Hours  
An evaluation of the field of atypicalities existing throughout childhood. This includes the intellectual superior and the mental retardations. Stress is placed on deviations existing because of organic pathology resulting in varying kinds of mental and physical aberrations. Etiology, diagnosis and testing techniques are included. Prerequisite: Psy 306.

Psy 308. Experimental Psychology I  
Three Credit Hours  
Introduces the student to the basic concepts of scientific methods as applied to psychological problems. Emphasizes the study of the sensory processes. Prerequisite: Psy 302.

Psy 308L. Experimental Psychology Laboratory I  
One Credit Hour  
Experiments are conducted to familiarize student with the application of scientific methodology to the study of the sensory processes of man. Must be taken with lecture course. One two-hour laboratory period each week.

Psy 309. Experimental Psychology II  
Three Credit Hours  
Continuation of Psy 308 with emphasis on the application of scientific methods to the study of cognitive processes in general. Prerequisite: Psy 308.  
Second Term, Each Year

Psy 309L. Experimental Psychology Laboratory II  
One Credit Hour  
Continuation of Psy 308L with emphasis on cognitive experiments.  
Second Term, Each Year
Psy 312. abnormal psychology
Treats mental aberrations whether functional or organic. Describes syndromes, etiology and treatment. Prerequisite: Psy 305 and 201.

Psy 315. personality
Introduction to the scientific study of personality as reflected in both clinical and experimental findings. Prerequisite: 305, 201.

Psy 321. human factors engineering
Designed to provide engineer and psychologist with essential psychological concepts and methods to optimize use of men and equipment. Principles governing design of equipment which account for the capacities and limitations of human processes are outlined and discussed within the framework of prevailing man-machine systems. Prerequisite: Psy 201.

Psy 321L. human factors engineering laboratory
Selected experiments on displays and other equipment to illustrate the application of human factors principles to design of equipment. Must be taken with lecture course. One two hour laboratory period each week.

Psy 402. psychological tests and measurements
Historical background of testing and the ethics involved. Concentrates on the requirements of acceptable tests in general. Reviews principal tests of intelligence, personality, aptitude, etc. Prerequisite: Psy 302, 204 or 201.

Psy 408. social psychology
Presents systematic treatment of social forces affecting human behavior. Emphasizes methods of social psychology. Prerequisite: Psy 201.

Psy 409. history of psychology
Considers modern psychology from the vantage point of its origins in philosophy and science. Emphasizes an evaluation of systems and schools in the history of psychology. For seniors only.

Psy 412. interviewing and counseling procedure
Theories and techniques of interviewing and counseling are discussed and evaluated. Practice provided by role playing and by case study. Permission of the instructor or chairman is required. For seniors only.

Psy 420. industrial psychology
Introduces modern efforts to improve human performance in industrial organization and society. Studies selection and placement of employees, morale training, incentive, etc. Prerequisite: Psy 302, 201.

Psy 454. physiological psychology
Study of neurological structure and function emphasizing role of nervous and glandular systems in the study of behavior. Prerequisite: Bio 207.

Psy 455. comparative psychology
Development of the general aspects of behavior is studied as to the sensory and cognitive capacities among lower animals. Comparative study of animal social behavior is under-
taken. Two hour lecture, two hour laboratory. Prerequisite: Psy 308, 309, and/or permission of advisor.

**PSY 455L. COMPARATIVE PSYCHOLOGY LABORATORY**

Experiments are conducted to highlight classical and contemporary findings in animal behavior. Must be taken with lecture course. One two hour laboratory period each week.

**PSY 480. SENIOR SEMINAR**

Several areas of psychological inquiry are reviewed to attempt a synthesis of major findings and the direction of prevailing research. 

*Second Term, Each Year*

**PSY 490. SPECIAL PROBLEMS IN PSYCHOLOGY**

Research problems of special interest to the student are investigated under direction of psychology staff members. Permission of department chairman is required. May be taken more than one time.

**PSY 491-492. READINGS IN PSYCHOLOGY**

Directed readings in some specific phase of Psychology are done under the supervision of a staff member. A written or oral report will be required. Permission of instructor and department chairman is required.

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**Secretarial Studies (Sec)**

*Velma M. Miller, Chairman*

*Associate Professors: M. Civille, V. Miller*

*Instructors: S. Houghtling, J. Webster*

During registration week, the department of Secretarial Studies offers tests in both shorthand and typewriting to assist in proper placement of students desiring to continue work in either or both fields. These tests are required of all students who have had prior work in shorthand or typewriting and expect to continue in these fields, whether for teaching purposes, professional reasons, or personal use.

**SEC 101. ELEMENTARY SHORTHAND**

Gregg Shorthand is the system employed in this course. Using the Diamond Jubilee series, the entire theory is covered during the first semester. Transcription is introduced. Five class periods a week.

**SEC 102. INTERMEDIATE SHORTHAND**

Gregg theory is reviewed. Reading practice continues but transcription is emphasized. Five class periods a week.

**SEC 103. ELEMENTARY TYPWRITING**

The keyboard is memorized. Drill is given in the function and care of the machine. The ability to produce straight copy work is the aim of this course. Five class periods a week. For use of typewriter, $5.00 per semester.

**SEC 104. INTERMEDIATE TYPWRITING**

The aim is to develop further skill in the use of the typewriter and to provide experience in letter arrangement and simple tabulations. Five class periods a week. For use of typewriter, $5.00 per term.
SEC 105. Secretarial Accounting
A short course in accounting especially designed for private secretaries; covers the fundamental principles of accounting as applied to mercantile and personal service enterprises operated by sole proprietors. Three class periods a week.

SEC 106. Secretarial Accounting
This course develops further the accrual basis of accounting for mercantile enterprises, with emphasis on partnership transactions, but with an introduction to corporation accounting. Three class periods a week.

SEC 107. Personal Typewriting
Students are taught typing for personal use—this includes knowledge of the typewriter, preparing outlines, manuscript writing, business letters, fill-in forms, rough drafts, etc. Three class periods a week. For use of typewriter, $3.00 per term.

SEC 110. Secretarial Mathematics
Review and practice of essential mathematical computations common to business offices; development of proficiency in these functions.

SEC 201. Dictation and Transcription
Gregg principles are reviewed. Rapid reading is emphasized. Sustained writing periods are increased. Practical office dictation speeds are employed. Five class periods a week.

SEC 202. Advanced Dictation and Transcription
Phraseology of a technical nature is taken up. Industrial and civil service testing programs are studied. Rapid dictation and transcription. Five class periods a week.

SEC 203. Advanced Typewriting
Advanced practice in various office skills. Survey of all letter forms, tabulation, manuscripts, and rough drafts. Five class periods a week. For use of typewriter, $5.00 per term.

SEC 204. Production Typewriting
Designed to develop practice in business forms, more complicated tabulations, legal typing, etc., with emphasis upon office production standards; speed work. Five class periods a week. For use of typewriter, $5.00 per term.
Sociology and Anthropology

Dr. Mary Jo Huth, Chairman
Professor: E. Huth
Associate Professor: M. Huth
Assistant Professor: Flores
Instructors: Klein, Lucas

STATEMENT OF PURPOSE: The curriculum of the Department of Sociology and Anthropology is organized around eight major fields: anthropology, pre-professional social work, social organization, social disorganization, social change, population and ecology, methods, and sociological theory. The department's objectives are: (1) to promote understanding of the social character of human life in both primitive and advanced societies through an analysis of social structures, interaction processes and institutions; (2) to present a balanced perspective of current social issues and problems; and (3) to encourage the objective study of society by instruction in scientific research methods. Courses in the Department of Sociology and Anthropology are designed for various groups of students: (1) those desiring scientific knowledge of social relationships as a part of their general equipment for living; (2) those planning to enter a public service profession such as nursing, medicine, dentistry and law; (3) those expecting to engage in a form of public relations work that will require a broad grasp of the nature of society, public opinion, and social change; (4) those anticipating a career in social research and planning; (5) those looking forward to the teaching of social studies, sociology or anthropology; and (6) those intending to pursue graduate training in social work, sociology or anthropology.

REQUIREMENTS FOR MAJORS AND MINORS

Major or Minor in Sociology: Majors and Minors in Sociology should consult the chairman of the department in planning their course programs. They must complete, during their Freshman and Sophomore years, the general requirements for the B.A. degree. Majors must complete 30 hours of course work in the department, including Sociology 201, 202, 401, 414, and 419. Minors must complete 15 hours in the department, including Soc. 201 and 202. Electives are selected from the 300 and 400 courses.
Major in Social Work: The Department of Sociology and Anthropology is a Constituent Member of the Council on Social Work Education, an international accrediting agency for schools of social work in the United States and Canada. The Epsilon Chapter of Phi Alpha, National Social Work Honor Society, is under the jurisdiction of the department. Majors in Social Work should consult the chairman of the department in planning their course programs. They must complete, during their Freshman and Sophomore years, the general requirements for the B.A. degree. Thirty (30) hours of course work must be completed in the department, including Sociology 201, 202, 305, 312, 401, 418, 430, and 437. Electives are selected from the 300 and 400 courses.

Major in Anthropology: Majors in Anthropology should consult the chairman of the department in planning their course programs. They must complete, during their Freshman and Sophomore years, the general requirements for the B.A. degree. Twenty-seven (27) hours of course work must be completed in the department, including Sociology 201, 202, 308, 321, and 401, in addition to Psychology 408. Electives are selected from the 300 and 400 courses.

Soc 201. General Sociology
Three credit hours
The basic course in the principles of sociology: an introduction to the fundamental concepts of sociology. A prerequisite for all advanced courses in the department.

Three credit hours

Soc 301. Marriage and the Family
Three credit hours
A functional course concerned with mate selection, husband-wife relationships, parenthood, family disorganization and rehabilitation.

Soc 303. Population
Three credit hours
The study of population growth, composition, distribution, problems and theory, with special reference to the United States.

Third Term, Each Year

Soc 305. Introduction to Social Work
Three credit hours
A comprehensive survey of social work, including social casework, social group work,
community organization, social research, social action, and social administration. Required of Majors in Social Work.

**Soc 307. Criminology and Penology**
Three credit hours
The study of crime: its extent, etiology, prevention and treatment; probation and parole; punishment theory and practice in historical perspective; prison reform and the objectives of modern penology. *First Term, Each Year*

**Soc 308. General Anthropology**
Three credit hours
The study of the physical, social and cultural development of human beings since their appearance on earth. A prerequisite for specialized courses in anthropology. *First Term, Each Year*

**Soc 312. Principles of Social Casework**
Three credit hours
An introduction to the basic principles and processes involved in helping people solve their problems: the techniques of interviewing and history-making; the relationship between caseworker, client and community; a critical evaluation of referral and treatment plans. Required of Majors in Social Work. *First Term, Each Year*

**Soc 313. Juvenile Delinquency**
Three credit hours
Analysis of the relationship of the home, school, church, peer group, neighborhood, mass media and other elements in the community—the child guidance clinic, detention home, and juvenile court—to delinquency as regards its causes, prevention and treatment. *Second Term, Each Year*

**Soc 315. Industrial Sociology**
Three credit hours
An analysis of the characteristics of industrial society: occupational roles and relationships; technological progress and its repercussions; industrial relations problems. *Second Term, Each Year*

**Soc 321. Cultural Anthropology**
Three credit hours
A study of man's artifacts, institutions and beliefs reflecting his own creativity and his membership in society. Required of Majors in Anthropology. *Second Term, Each Year*

**Soc 401. Social Research and Statistics**
Three credit hours
The problems and methods of research in the social sciences; statistical techniques for quantifying and evaluating social research data. Required of Majors in Sociology, Social Work, and Anthropology. *First Term, Each Year*

**Soc 406. Contemporary Social Movements**
Three credit hours
An analysis of certain revolutionary, nationalistic, reform, religious and fashion movements which have resulted in major social changes: their leaders, ideologies and tactics. *Third Term, Each Year*

**Soc 412. School and Society**
Three credit hours
Teacher-student, teacher-administration, and school-community relationships; educational processes, deviant behavior in schools, education for social responsibility. *Second and Third Terms, Each Year*

**Soc 414. Seminar in Sociology**
Three credit hours
Individual and group projects developed around such topics as: Marriage and Family Problems, Urban Renewal, and Deviant Behavior. Required of Majors in Sociology. *Second Term, Each Year*
Soc 418. Community Organization
The mobilization of community resources to meet community needs; methods for developing, maintaining, extending, and coordinating social welfare agencies. Required of Majors in Social Work.  

Second Term, Each Year

Soc 419. Sociological Theory
A consideration of the works of leading sociological theorists and major trends of development in sociological thought, with particular reference to the 19th and 20th centuries. Required of Majors in Sociology.  

First Term, Each Year

Soc 420. Social Group Work
Principles and concepts of social group work as a method of social work; role of the worker with groups and individuals in groups; understanding the group process; use of program media. Required of Majors in Social Work.  

First Term, Each Year

Soc 433. Urban-Rural Sociology
Physical and social characteristics of urban-rural areas; urban-rural ecology; major problems of urban and rural life; urban planning and renewal.  

Third Term, Each Year

Soc 437. Field Work
The opportunity for practical application of social work principles is afforded all social work majors through placement in local private and public social work agencies. Required of Majors in Social Work.

Theological Studies (THL)

Rev. Matthew F. Kohmescher, S.M., Chairman
Professors: Leimkuhler, Stanley
Associate Professors: Cole, Kohmescher, Wagner
Assistant Professors: Brady, Burns, Harrington, Kelley, Neubauer, Weber
Instructors: Brown, Cardillo, Lumpp, Martin, Meyer, Middendorf, Otto, Riley, Wigal

The Department of Theological Studies, while not neglecting the scientific requirements of the intellectual discipline known as theology, purposes to meet actual needs of Christian students preparing for life in the 20th century. Hence, the Department strives in its curriculum of courses to offer the student that "broad knowledge" and to foster those "basic intellectual habits" in Theology which are relative to, and fundamental for, a Christian intellectual life.

Twelve credits in theology are required of all Catholic students. Thl 152 and Thl 220 are required courses and must be taken by all. Transfer students who do not have the equivalent of Thl 152 and Thl 220 must take them here. In addition Catholic students elect 6 credits in 300-400 courses, including at least one course on the 400 level.

Majors (24 credits in 300-400) and minors (12 credits in 300-400 courses) should consult the chairman. In general at least half their credits should be in 400 level courses. Majors may count Hst 345-346 towards their major; minors may count one of them.
THEOLOGICAL STUDIES  253

THL 106.  DOGMATIC THEOLOGY  THREE CREDIT HOURS
The nature of theology; the true religion; the Church of Christ; the sources of revelation; the existence and nature of God; the blessed Trinity; creation; angels; the governance of the world. Offered at Marianist College and Regina Heights.

THL 152.  INTRODUCTION TO SACRED SCRIPTURE  THREE CREDIT HOURS
The Bible studied 1) As the Word of God in the words of men; and 2) As the chronicle of God's saving action in history. Place of the Bible in the Church, in Theology, in Christian living. Selected readings. Required of all freshmen.

THL 191.  THE CHRISTIAN CRISIS  TWO CREDIT HOURS
The crisis of society, development of secularism, effects of secularism; the need for social and moral reconstruction, attitudes toward the social order. Offered at Marianist College.

THL 206.  GENERAL MORAL THEOLOGY  THREE CREDIT HOURS
Happiness—man's final goal; human acts; the morality of human acts; man's emotions; internal principles of good living; vices and sins; law; divine grace. Offered at Marianist College and Regina Heights.

THL 220.  THEOLOGY OF CHRIST  THREE CREDIT HOURS
Study of Christ as the fulfillment of the Divine Plan—His coming, His life, His mission. Christ—the central mystery of Christianity. Required of all sophomores.

THL 291.  MISSION OF THE CHURCH  TWO CREDIT HOURS
Call of the Popes for social-moral reconstruction, the Church as an instrument of salvation, role of the layman in the Church, lay spirituality, Catholic Action and the problems of the social order. Offered at Marianist College.

THL 306.  THEOLOGICAL AND MORAL VIRTUES  THREE CREDIT HOURS
Faith and Hope; Charity; Prudence; Justice, the parts of Justice; Fortitude; Temperance; States of Life. Offered at Marianist College and Regina Heights.

THL 332.  PIUS XII: MYSTICAL BODY OF CHRIST  TWO CREDIT HOURS
Detailed study of the encyclical by Pius XII on "The Mystical Body of Christ." The Church as the foundation of society; scope and norm of society; basis of authority; impact on secularist mind.

THL 350.  OLD TESTAMENT PROBLEMS  TWO CREDIT HOURS

THL 360.  CHRISTIAN MORALITY  TWO CREDIT HOURS
Basic Christian morality seen as the personal response to the redemptive Word of God.

THL 362.  FAITH HOPE CHARITY: DYNAMICS OF CHRISTIAN LIVING  TWO CREDIT HOURS
Detailed examination of the three theological virtues and their place in the life of the Christian today. Special emphasis on contemporary problems in this area and on recent theological developments.
THL 365. Theology of Marriage
Analysis of the sanctifying dignity of Christian marriage as sacrament and commitment to share in the divine creative plan.

THL 380. God—The Layman and the World
Role of layman in the church; a complete ecclesiology.

THL 381. Theology of Lay Life
Role of layman in the temporal order; theology of various spheres of man's life.

THL 391. Mission of the Society of Mary
Family of Mary as conceived by Father Chaminade, her role in mission of the Church. Filial Piety, dogmatic background and apostolic implications, apostolic method of the Society, consecration to Mary. Offered at Marianist College.

THL 400. Special Problems in Theology
Investigation and discussion of current problems in Christian belief and living, and of theology as an integrating factor in life. May be taken more than once.

THL 402. Questions in Theology
A detailed treatment of specific areas of Catholic theology. Topics covered can vary from term to term. May be taken more than once.

THL 404. Readings in Theology
Directed readings in a specific area of theology are done under the supervision of a staff member. A written or oral report is required. Permission of the chairman is needed. May be taken more than once.

THL 407. Christology
An intensive study of Christ (Incarnation and Redemption). Offered at Marianist College and Regina Heights.

THL 408. The Sacraments
The Sacraments (in general and in particular); the judgment, heaven, hell. Offered at Marianist College and Regina Heights.

THL 425. Sacraments
Principle of sacramentality in religion; the sacraments as the human mode of encounter with God.

THL 430. Theology of the Church
Biblical roots of the church; nature of the church; role of authority; role of intellectual understanding; mission of the church.

THL 435. Theology of Liturgy
Nature and sources of the liturgy; rites; worship life of the church (sacrifice and sacraments); prayer life of the church; development of the liturgy.

THL 440. Theology of Mary
Study of the place of the Mother of God in the great truths of faith with emphasis on her own special functions and privileges.
THL 441. THEOLOGY OF MARY
Study of the place of the Mother of God in the great truths of faith with emphasis on her own special functions and privileges. Offered at Marianist College.

THL 450. NEW TESTAMENT PROBLEMS

THL 451. NEW TESTAMENT PROBLEMS

THL 452. MYSTICAL THEOLOGY
An analysis of the three ways of perfection with the latter part of the course devoted to the gifts of the Holy Spirit. Offered at Regina Heights.

THL 470. CHRISTIANITY AND SOCIAL PROGRESS
A study of the socio-economic changes since 1891 in the light of Christian social principles and the application of those principles to the Christian social order on the international level.

THL 471. CHRISTIANITY AND SOCIAL PROGRESS
A study of the socio-economic changes since 1891 in the light of Christian social principles and the application of those principles to the Christian social order on the international level. Offered at Marianist College.

THL 472. SOCIAL JUSTICE AND COMMUNISM
A refutation of the error of the dialectic and historical materialism of atheistic Communism with emphasis on the Christian remedial programs of spirituality and action.

THL 481. MODERN CATHOLIC THOUGHT
Reading and discussion of representative modern Catholic writers in the field of theology. Required of all majors. Seniors only. Permission of department chairman required.

THL 491. TECHNIQUES OF THE MARIANIST SODALITY
The Sodality, apostolic instrument of the Society of Mary; relation of the school to the Sodality; structure of the Sodality; formation of sodalists; apostolate of the Sodality; methods and techniques. Offered at Marianist College.

PROGRAM OF JUDAIC STUDIES

Liaison: Fr. John Kelley, S.M.

The program of Judaic Studies brings Jewish scholars to our campus for specialized offerings relating to Old Testament literature and history of Israel.

Visiting Instructors: Dr. Ellis Rivkin, Rabbi Ezra Spicehandler, Dr. Samuel Greengus
JUD 320. History of Israel
A survey of the history of the chosen people from Abraham unto modern times with stress on biblical history and the contemporaneous resurgence of a national state.

First Term

JUD 321. Biblical View of History
Seminar dealing with the biblical view of history.

First Term

JUD 330. Judaic Literature
An introduction to and overview of the field of Judaic literature with emphasis upon literary forms.

Third Term

JUD 331. Selected Texts from Jewish Literature
Seminar discussing selected texts of Judaic literature.

Third Term

JUD 340. Archaeology and the Bible
An historical and synthetic analysis of the development of archaeology in Palestine and the subsequent impact upon the understanding of the culture of Judaism.

Second Term

JUD 341. Seminar: Modern Developments in Archaeology

Second Term

JUD 360. Judaism and Islam
An historical and comparative analysis of the development of Islam from Judaic and Christian elements; a survey of the Koran in its literary dependence on scripture.

To be announced

JUD 361. Seminar: The Bible and the Koran

To be announced

Technical Institute

Director: James L. McGraw

CHEMICAL TECHNOLOGY (Cti)

Assistant Professor: Loughran

Cti 101. Inorganic Chemistry
A comprehensive treatment of the fundamentals of general chemistry, with emphasis on their application to the essential groups of elements in the periodic table. Laboratory work is devoted to semi-micro qualitative analysis. Prerequisite: Sti 121 or 122.

Three Credit Hours

Cti 101L. Inorganic Chemistry Laboratory
To accompany Cti 101. Three hours of laboratory a week.

One Credit Hour

Cti 202. Quantitative Analysis
The fundamental principles and techniques involved in exact analysis. Gravimetric, volumetric, and colorimetric analyses are stressed along with the techniques that accompany these operations such as weighings and separations. Prerequisite: Cti 101.

Three Credit Hours

Cti 202L. Quantitative Analysis Laboratory
To accompany Cti 202. Six hours of laboratory a week.

Two Credit Hours
Cti 203. Physical Chemistry
A short course for chemical technicians. Application of the properties of matter in its different states. Covers chemical equilibrium; thermochemistry; electrochemistry; reaction kinetics; phase rule. Prerequisites: Cti 202, Sti 104 or Sti 106.

Cti 203L. Physical Chemistry Laboratory
To accompany Cti 203. Three hours of laboratory a week.

Cti 204. Organic Chemistry
A systematic study of the organic compounds containing carbon with special emphasis on the aliphatic and aromatic classes. Special emphasis will be placed on the role of organic chemistry in industry. Prerequisite: Cti 101.

Cti 204L. Organic Chemistry Laboratory
To accompany Cti 204. Three hours of laboratory a week.

Cti 206. Instrumentation
Study of various specialized instruments used in industry for analysis. Prerequisite: Cti 202.

Cti 207. Applied Chemistry
Practical applications of chemistry in various industries. Emphasis will be placed on plastics, powdered metallurgy, paper and other units as required. Prerequisite: Cti 206.

Cti 207L. Applied Chemistry Laboratory
Practical applications of chemistry in various industries. Emphasis will be placed on plastics, powdered metallurgy, paper and other units as required. Three hours practicum a week.

Cti 208. Organic Chemistry I
A systematic study of the aliphatic classes of organic compounds. Prerequisite: Cti 101.

Cti 208L. Organic Chemistry Laboratory I
To accompany Cti 208. Three hours of laboratory a week.

Cti 209. Organic Chemistry II
A systematic study of the aromatic classes of organic compounds. Prerequisite: Cti 208.

Cti 209L. Organic Chemistry Laboratory II
To accompany Cti 209. Three hours of laboratory a week.

Cti 301. Metallurgy
An introduction to the basic fundamentals of metallurgy and metallurgical applications. Includes study of metallurgical processing, extractive metallurgy, and foundry technology.

Cti 302. Chemical Engineering Technology
Designed to acquaint the student in chemical technology with the fundamentals of chemical engineering including process variables, material balances, energy balances, and equilibrium conditions.
ELECTRONIC ENGINEERING TECHNOLOGY (Eti)

Richard R. Hazen, Chairman
Assistant Professors: Hanneman, Hazen, Peterson
Instructors: Rajput, Rooney

Eti 101L. Electrical Circuits Laboratory
One credit hour
Fundamental D.C. and A.C. circuit experiments. Three hours of laboratory a week. To accompany Eti 103.

Eti 102. Elements of Electrical Technology I
Three credit hours
Practical concepts of D.C. Circuits; resistance, resistivity, power and magnetism. Circuit calculations using basic formulas. Corequisite: Sti 103 or Sti 105.

Eti 103. Elements of Electrical Technology II
Three credit hours
Practical concepts of A.C. Circuits; inductance, capacitance, reactance, impedance, phase, power and power factor. Circuit calculations utilizing vectors and complex quantities. Prerequisite: Eti 102; Corequisite: Sti 104 or Sti 106.

Eti 107. Electrical Code
One credit hour
A study of the National Electrical Code to provide safe practices in the installations of electrical equipment in buildings.

Eti 201. Fundamentals of Electronic Technology
Three credit hours

Eti 202. Electronics
Three credit hours
Principles of operation of the more common types of vacuum and gas tubes, thyatrons, photoelectric cells and simple circuits used with them. Prerequisite: Eti 103; Corequisite: Sti 205.

Eti 202L. Electronics Laboratory
One credit hour
To accompany Eti 202. Three hours of laboratory a week.

Eti 203. Electrical Measurements
Three credit hours
Fundamentals of direct and alternating current measuring instruments and methods of measurement, with particular emphasis on industrial applications. Prerequisite: Eti 103; Corequisite: Sti 205.

Eti 203L. Electrical Measurements Laboratory
One credit hour
To accompany Eti 203. Three hours of laboratory a week.

Eti 204. Electrical Measurements
Two credit hours
Fundamentals of direct and alternating current measuring instruments and methods of measurement, with particular emphasis on industrial applications. Corequisite: Eti 103, Sti 205.

Eti 204L. Electrical Measurements Laboratory
One credit hour
To accompany Eti 204. Three hours of laboratory a week.
ETI 205. **Electronic Measurements**  
Three credit hours  

ETI 205L. **Electronic Measurements Laboratory**  
One credit hour  
To accompany Eti 205. Three hours of laboratory a week.

ETI 210. **Electrical Machinery**  
Three credit hours  
Fundamentals of the construction and application of direct current and alternating current machines and apparatus to industrial uses. Prerequisite: Eti 108. Evening classes only.

ETI 210L. **Electrical Machinery Laboratory**  
One credit hour  
To accompany Eti 210. Three hours of laboratory a week. Evening classes only.

ETI 211. **Motor Control**  
Three credit hours  
Industrial uses of standard controllers for electric motors. Prerequisite: Eti 210. Evening classes only.

ETI 211L. **Motor Control Laboratory**  
One credit hour  
To accompany Eti 211. Three hours of laboratory a week. Evening classes only.

ETI 212L. **Electrical Blueprints and Diagrams**  
One credit hour  
Standards and symbols used on electrical blueprints and wiring diagrams primarily for control circuits. Three hours of laboratory a week. Prerequisite: Mti 101. Evening classes only.

ETI 213L. **Electrical Blueprints and Diagrams**  
Two credit hours  
An introduction to drawing with emphasis upon standards and symbols used on electrical blueprints and wiring diagrams primarily for control circuits. Six hours of laboratory a week. Evening classes only.

ETI 222L. **Electronic Circuit Diagrams**  
One credit hour  
Standards and symbols used on electronic circuit diagrams. Three hours of laboratory a week. Prerequisite: Mti 101.

ETI 226. **Introduction to Analog Computers and Servomechanisms**  
Three credit hours  
Fundamentals and design of synchros and related error detectors, rate generators, magnetic amplifiers and friction dampers. Prerequisite: Eti 202.

ETI 226L. **Analog Computer and Servomechanism Laboratory**  
One credit hour  
To accompany Eti 226. Three hours of laboratory a week.

ETI 229L. **Electronic Circuit Diagrams**  
Two credit hours  
An introduction to drawing with emphasis upon standards and symbols used on electronic circuit diagrams. Six hours of laboratory a week. Prerequisite: Eti 202.

ETI 323. **Semiconductor Fundamentals**  
Three credit hours  
**Eti 323L. Semi-Conductor Fundamentals Laboratory**
To accompany Eti 323. Three hours of laboratory a week.

**Eti 324. Digital Computer Fundamentals**
Fundamental theory and techniques of electronic data-processing to include binary arithmetic, switching theory (Boolean algebra) and basic circuitry (gates, adders, registers and memory). Prerequisite: Eti 202.

**Eti 324L. Digital Computer Laboratory**
To accompany Eti 324. Three hours of laboratory a week.

**Eti 327. Pulse Circuits**
Selected topics relating to radar, television, and computer circuits including integrators, differentiators, blocking oscillators, multivibrators and time-base generators. Prerequisite: Eti 202.

**Eti 330. Special Electrical Projects**
Laboratory work and outside reading associated with a phase of electricity selected by the student and approved by Chairman of the Department. Prerequisite: Eti 202.

**INDUSTRIAL ENGINEERING TECHNOLOGY (Iti)**

**James L. McGraw, Chairman**

**Associate Professor: McGraw**

**Assistant Professor: Puckett**

**Instructor: Harris**

**Iti 101. Industrial Organization and Production**
A survey of the operational, financial, marketing and accounting activities of industrial organization. Also included is a detailed survey of the duties of management as related to the production function of planning, control, personnel and human factors.

**Iti 104. Industrial Materials and Processes**
A study of modern industrial materials with emphasis on their chemical and physical properties, and methods by which they may be processed.

**Iti 108. Production Methods and Control**
Principles and the techniques used in production; current practices in production planning, routing, scheduling and dispatching; study of production standards, labor efficiency and costs; quantity and quality control. Prerequisites: Iti 101 and Iti 104.

**Iti 203. Elements of Supervision**
A study of the supervisor's relation to his men and his place in developing an effective production team. Prerequisites: Iti 101.

**Iti 204. Motion and Time Study**
Fundamentals of work simplification and motion economy using the techniques of motion and time study for the development of effective methods of production. Prerequisites: Iti 101 and Iti 103.

**Iti 204L. Motion and Time Study Laboratory**
To accompany Iti 204. Three hours of laboratory a week.
ITI 215. ELEMENTS OF COST CONTROL
TWO CREDIT HOURS
A survey of the methods of breakdown and cost analysis of labor, material and overhead. All related to modern industrial practices. Prerequisite: Iti 101.

ITI 216. QUANTITATIVE METHODS IN I.E.T.
THREE CREDIT HOURS
An introduction to the application of mathematics to decision-making in industry. Prerequisite: Sti 106.

ITI 217. INDUSTRIAL ECONOMIC ANALYSIS
THREE CREDIT HOURS
An introduction to the economics of tools, equipment and machinery, including an elementary study of compound interest and depreciation. Prerequisite: Sti 106.

ITI 230. MOTION AND TIME STUDY I
TWO CREDIT HOURS
Fundamentals of work simplification and motion economy using the techniques of motion and time study for the development of effective methods of production. Prerequisites: Iti 101 and Sti 103 or Sti 105.

ITI 230L. MOTION AND TIME STUDY LABORATORY I
ONE CREDIT HOUR
To accompany Iti 230. Three hours of laboratory a week.

ITI 305. LABOR AND WAGE ADMINISTRATION
THREE CREDIT HOURS
Brief history of labor unionism and labor legislation. Survey of collective bargaining contracts, grievances and arbitration. Wage administration including job evaluation, wage structures, wage incentives and employee evaluation. Prerequisite: Iti 101.

ITI 318. STATISTICAL QUALITY CONTROL
THREE CREDIT HOURS
An introduction to the techniques of industrial process control using statistical methods. Prerequisite: Sti 103 or 105.

ITI 331. MOTION AND TIME STUDY II
TWO CREDIT HOURS
A study of the techniques used in work measurement and in setting time standards; including stop watch time study, and work sampling. An introduction to predetermined time systems and to standard data. Prerequisites: Iti 230.

ITI 331L. MOTION AND TIME STUDY LABORATORY II
ONE CREDIT HOUR
To accompany Iti 331. Three hours of laboratory a week.

ITI 332. PLANT LAYOUT
TWO CREDIT HOURS
A study of the economical arrangement of stocks, machines and layout of aisles for efficient material handling and production. Prerequisites: Iti 108 and Mti 101 or Mti 103L.

ITI 332L. PLANT LAYOUT LABORATORY
ONE CREDIT HOUR
To accompany Iti 332. Three hours of laboratory a week.

MECHANICAL ENGINEERING TECHNOLOGY (Mti)
L. Duke Golden, Chairman
Associate Professor: Golden
Assistant Professor: Morgana
Instructors: Kretzler, Wolff
Mti 103L. Technical Drawing
Two Credit Hours
An introduction to technical drawing with emphasis on orthographic projection and conventional industrial practices in producing technical sketches and completed detail drawings. Six hours of laboratory a week.

Mti 104L. Graphical Computations
Two Credit Hours
Principles of descriptive geometry. Intersections and developments of planes and solids; layout of objects in space and clearance. Six hours of laboratory per week. Prerequisites: Mti 101 or Mti 103, Sti 103 or Sti 105.

Mti 105L. Machine Tools Laboratory
One Credit Hour
A study of uses and capabilities of standard machine tools, measuring instruments and testing equipment. Three hours of laboratory a week. Corequisite: Iti 104.

Mti 106L. Testing and Measurements
One Credit Hour
The use of measuring instruments and standard mechanical testing equipment. Three hours of laboratory a week. Corequisite: Iti 104, Sti 114 or Sti 111.

Mti 107L. Machine Tool Operation
One Credit Hour
The use of hand tools and standard production machine tools. Three hours of laboratory a week. Prerequisites: Mti 103L or Mti 101, Sti 105; Corequisites: Mti 106L, Sti 104.

Mti 203. Machine and Tool Drawing
One and One-Half Credit Hours
Preparation of complete working drawings from layouts for interchangeable manufacture, computation of fits, limit dimensions and tolerances. Prerequisites: Iti 104 and Mti 102.

Mti 203L. Machine and Tool Drawing Laboratory
One Credit Hour
To accompany Mti 203. Three hours of laboratory a week.

Mti 205. Die Design
Three Credit Hours
Fundamental principles of the design and construction of piercing, blanking, forming, drawing, progressive and compound dies. One hour of class and five hours of laboratory a week. Prerequisite: Mti 203. Evening classes only.

Mti 206. Jig and Fixture Design
One and One-Half Credit Hours
Fundamental principles of the design and construction of drill and combination jigs, and milling, reaming and tapping fixtures. One and one-half hours of class and three hours of laboratory a week. Prerequisite: Mti 203. Evening classes only.

Mti 206L. Jig and Fixture Design Laboratory
One Credit Hour
To accompany Mti 206. Three hours of laboratory a week. Evening classes only.

Mti 213. Industrial Mechanisms
Three Credit Hours
Applications and mechanical advantages of gears, cams, pulleys, linkages and levers as used in industrial work simplification devices. For industrial engineering technology. Prerequisite: Sti 114.

Mti 220. Mechanics: Statics and Dynamics
Three Credit Hours
Principles of applied engineering mechanics. Three hours of class per week. Prerequisites: Sti 106 and Sti 114.
MTI 221. STRENGTH OF MATERIALS  THREE CREDIT HOURS
Principles of applied strength of materials primarily with reference to mechanical design. Three hours of class per week. Prerequisites: MTI 220 or MTI 224.

MTI 224. STATICS  TWO CREDIT HOURS
Force systems, resultants and equilibrium, centroids of areas and centers of gravity of bodies, trusses, frames, beams, friction and moments of inertia of areas and bodies. Two hours of class per week. Prerequisite: STI 114.

MTI 225. DYNAMICS  TWO CREDIT HOURS
Principles of applied engineering dynamics. Two hours of class per week. Corequisite: MTI 224.

MTI 226L. MECHANISM  TWO CREDIT HOURS
Motions, displacements, velocities, friction wheels, flexible connectors, cam, linkages and gears. One hour of class and three hours of laboratory a week. Prerequisite: MTI 104L; Corequisite: MTI 220 or MTI 225.

MTI 230. THERMODYNAMICS  TWO CREDIT HOURS
General laws of thermodynamics, properties and processes of gases, vapor and gas-vapor mixtures; cycles; and the flow of fluids, application of thermodynamics to machines such as engines. Corequisites: STI 206 and STI 214.

MTI 231. FLUID MECHANICS  THREE CREDIT HOURS
Properties of fluids, buoyant forces, uniform and non-uniform flow, forces developed by fluids in motion and hydraulic machinery. Prerequisite: MTI 230.

MTI 321L. DIES, JIGS AND FIXTURES  TWO CREDIT HOURS
Design calculation and sketching, of dies, jigs and fixtures used in industrial production. One hour of class and three hours of laboratory a week. Prerequisite: MTI 221.

MTI 322L. MACHINE DESIGN  TWO CREDIT HOURS
Principles of engineering knowledge and mathematics applied to analysis and design of machine members and mechanical systems. One hour of class and three hours laboratory per week. Prerequisites: MTI 221, MTI 226L, and MTI 231.

MTI 327L. INDUSTRIAL AUTOMATION ACTUATION  TWO CREDIT HOURS
Application of hydraulic, pneumatic and electric actuators in the design of industrial automation for production systems. One hour of class and three hours laboratory per week. Prerequisites: MTI 225, MTI 226L, MTI 107L, MTI 231 and STI 213.

SERVICE COURSES

   Associate Professor: Averdick
   Assistant Professors: Fehlmann, Staub, Strange
   Instructor: Patrick

ORI 100. TECHNICAL INSTITUTE SURVEY  NO CREDIT HOURS
A general view of the engineering technician and his place on the engineering team. Also includes such subjects as "How to Study," use of the slide rule and general University orientation. One hour of class a week.
STi 101. **Industrial Mathematics I**  
Three Credit Hours  
A review of the fundamentals of arithmetic and a study of selected topics from geometry and algebra with application to industrial problems.

STi 104. **Advanced Technical Institute Mathematics**  
Three Credit Hours  
A brief introduction to selected topics of trigonometry, analytic geometry and calculus as applied to industrial problems. Prerequisite: STi 103.

STi 105. **Technical Institute Mathematics**  
Three Credit Hours  
Fundamental processes of algebra to include factoring, fractions, exponents and radicals, linear and quadratic equations, determinants, and logarithms. Introduction to trigonometry to include angular measure, interpolation, identities, and graphs.

STi 106. **Advanced Technical Institute Mathematics**  
Three Credit Hours  
Additional topics in trigonometry to include: solution of right triangles, solution of oblique triangles, and functions of composite angles. Selected topics in analytic geometry and differential calculus. Prerequisite: STi 105.

STi 114. **Physics: Mechanics**  
Two Credit Hours  
A study of the laws of simple machines, forces, linear and angular motion, conditions of equilibrium and fluids. Corequisite: STi 104 or STi 106.

STi 114L. **Physics: Mechanics Laboratory**  
One-Half Credit Hour  
To accompany STi 114. Two hours of laboratory a week.

STi 121. **Introduction to Industrial Chemistry**  
One and One-Half Credit Hours  
A survey of the general principles of chemistry including elements and their simpler compounds. Special emphasis on topics of importance in industrial activities. Prerequisite: STi 103 or STi 105.

STi 121L. **Introduction to Industrial Chemistry Laboratory**  
One Credit Hour  
To accompany STi 121. Three hours of laboratory a week.

STi 122. **Industrial Chemistry**  
Three Credit Hours  
A survey of the general principles of chemistry including elements and their simpler compounds. Special emphasis on topics of importance in industrial activities. Prerequisite: STi 103 or STi 105.

STi 122L. **Industrial Chemistry Laboratory**  
One Credit Hour  
To accompany STi 122. Three hours of laboratory a week.

STi 130. **English Composition**  
Three Credit Hours  
An intensive review of basic principles of grammar, spelling, punctuation and sentence structure, with special emphasis on composition.

STi 132. **English Composition II**  
Continuation of STi 131. Prerequisite: STi 131.

STi 133. **Effective Speaking**  
One and One-Half Credit Hours  
Organization and presentation of spoken materials with special emphasis on voice and physical delivery and audience reaction.
Sti 134. **Effective Speaking**
Organization and presentation of spoken materials with special emphasis on voice and physical delivery and audience reaction.

**TWO CREDIT HOURS**

Sti 141. **Practical Psychology**
Fundamentals of psychology as applied to normal behavior and personal adjustment, with special emphasis on possible uses in industrial application.

**THREE CREDIT HOURS**

Sti 205. **Mathematics for Electrical Technology**
Practical applications of selected topics of calculus and differential equations to Electrical Technology. Prerequisite: Sti 104 or Sti 106.

**THREE CREDIT HOURS**

Sti 206. **Mathematics for Mechanical Engineering Technology**
Practical applications of selected topics in differential and integral calculus to Mechanical Technology. Prerequisite: Sti 104 or Sti 106.

**THREE CREDIT HOURS**

Sti 213. **Physics: Electricity**
The basic principles of electricity and their application in industry. Prerequisite: Sti 111 or Sti 114.

**TWO CREDIT HOURS**

Sti 213L. **Physics: Electricity Laboratory**
To accompany Sti 213. Two hours of laboratory a week.

**ONE-HALF CREDIT HOUR**

Sti 214. **Physics: Heat, Light and Sound**
The elementary principles of heat, light and sound with particular emphasis on industrial application. Prerequisite: Sti 111 or Sti 114.

**TWO CREDIT HOURS**

Sti 214L. **Physics: Heat, Light and Sound Laboratory**
To accompany Sti 214. Two hours of laboratory a week.

**ONE-HALF CREDIT HOUR**

Sti 233. **Report Writing**
The preparation and presentation of industrial reports. Prerequisite: Sti 130 or Sti 132.

**ONE AND ONE-HALF CREDIT HOURS**

Sti 234. **Report Writing**
The preparation, and presentation of industrial reports. Prerequisite: Sti 130 or Sti 132.

**TWO CREDIT HOURS**

Sti 251. **Economics of Industry**
Basic economic principles as applied to major industrial problems.

**THREE CREDIT HOURS**

Sti 252. **American Political Ideas and Practices**
Fundamentals of democratic processes in government and the practices in which they function.

**THREE CREDIT HOURS**

Sti 305. **Advanced Technical Institute Mathematics II**
Selected topics from ordinary differential equations with an emphasis on operational methods of solution. Stress problems encountered in engineering technology. Prerequisite: Sti 205 or Sti 206.

**THREE CREDIT HOURS**

Sti 341. **Psychology of Human Relations**
Fundamentals of psychology as applied to normal behavior and personal adjustment, with special emphasis on possible uses in industrial application.

**THREE CREDIT HOURS**
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University Hall Cafeteria .............................................................. Onolee M. Schock
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History................................. Dr. Wilfred J. Steiner
Home Economics........................... Elizabeth L. Payne
Industrial Engineering.................... Robert I. Mitchell
Industrial Engineering Technology........ James L. McGraw
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Secretarial Studies ........................... Velma M. Miller
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Theological Studies .......................... Rev. Matthew F. Kohmescher, S.M.

(*Acting Chairmen)

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CAMPUS IMPROVEMENT

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RESOLUTIONS

SALARY

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Student Aid
EMERITI

Belz, S.M., Charles John, Civil Engineering, Professor—B.S., University of Dayton, 1912; B.C.E., University of Dayton, 1928; M.C.E., Catholic University of America, 1934; Reg. Prof. Eng.

Geisler, S.M., J. George, Chemistry, Professor—B.S., University of Dayton, 1921; Lic. Sc., University of Fribourg, 1924.

Hagenhoff, Sister Mary Pelagia, M.S.C., Education, Associate Professor—A.B., Villanova University, 1927; M.A., Villanova University, 1935; Ph.D., Catholic University of America, 1946.

Price, S.M., Thomas J., English, Professor—A.B., University of Dayton, 1911; M.A., Catholic University of America, 1935.

Ruhlman, S.M., Francis, Library, Associate Professor—B.A., University of Dayton, 1924; M.A., Our Lady of the Lake, 1936.

Schad, S.M., Bernard T., Civil Engineering, Professor—B.S., University of Dayton, 1924; M.S.E., University of Michigan, 1927; D.Sc., University of Michigan, 1935; Ph.D., University of Fribourg.

Weber, S.M., Andrew R., Mechanical Engineering, Professor—B.S., University of Dayton, 1919; B.M.E., University of Dayton, 1927; M.M.E., Catholic University of America, 1936; Fellow, O.A.S.; Reg. Prof. Eng.

RANKED FACULTY


Anderson, Allen O. (1962), Military Science, Assistant Professor—B.S., University of Arizona, 1941.

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