

1948

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SEATTLE UNIVERSITY

For the Academic Year

1948 - 1949



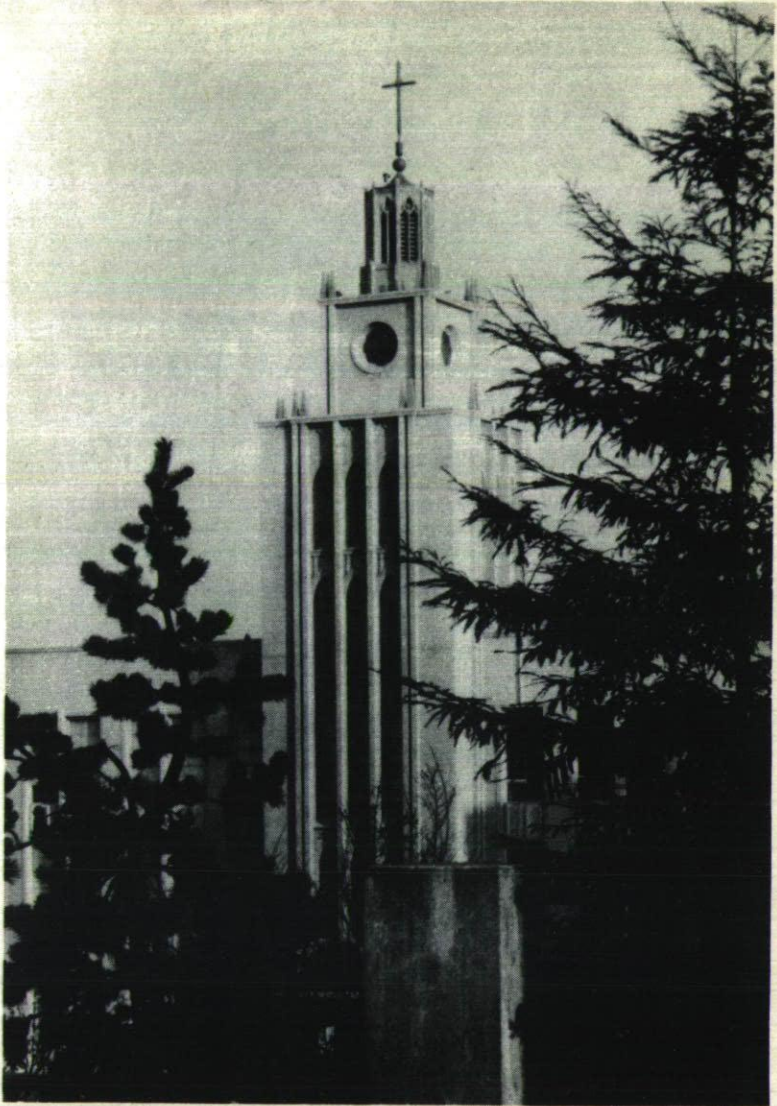
SEATTLE UNIV.

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Seattle 22, Washington



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Bulletin of

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for the

COLLEGE OF ARTS AND SCIENCES

SCHOOL OF COMMERCE AND FINANCE

SCHOOL OF EDUCATION

SCHOOL OF ENGINEERING

SCHOOL OF NURSING

GRADUATE SCHOOL OF ARTS AND SCIENCES

The Academic Year

1948 - 1949

SEATTLE UNIVERSITY

Seattle 22, Washington

1948

JANUARY							MAY							SEPTEMBER						
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1949

JANUARY							MAY							SEPTEMBER						
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FEBRUARY							JUNE							OCTOBER						
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MARCH							JULY							NOVEMBER						
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APRIL							AUGUST							DECEMBER						
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ACADEMIC CALENDAR

1948 - 1949

FALL QUARTER, 1948

Classes Resume	Sept. 29
Mass of the Holy Ghost.....	Oct. 13
All Saints Day—No Classes.....	Nov. 1
Mid-Quarter Examinations	Nov. 2
Annual Retreat	Nov. 22, 23, 24
Thanksgiving Vacation	Nov. 25, 26
Last day to withdraw with a grade of W.....	Dec. 3
Immaculate Conception—No Classes	Dec. 8
Final Examinations	Dec. 16, 17

WINTER QUARTER, 1949

Classes Resume	Jan. 3
Mid-Quarter Examinations	Feb. 3, 4
Last day to withdraw receiving a grade of W.....	Feb. 25
Final Examinations	March 10, 11

SPRING QUARTER, 1949

Classes Resume	March 15
Good Friday, No Classes.....	March 25
Classes Resume	March 29
Mid-Quarter Examinations	April 21 and 22
Ascension Thursday, No Classes.....	May 5
Last day to withdraw receiving a grade of W.....	May 13
Baccalaureate Mass	May 27
Final Examinations	June 2 and 3
Commencement	June 3

SUMMER QUARTER, 1949

Classes Resume	June 14
• Comprehensive and Language Examination for Master's Degree.....	June 17
Mid-Quarter Examinations	July 14 and 15
Last day to withdraw with a grade of W.....	July 29
Comprehensive and Language Examination for Master's Degree.....	August 12
Final Examinations	August 11, 12

SEATTLE UNIVERSITY

OFFICERS OF ADMINISTRATION

VERY REV. ALBERT A. LEMIEUX, S.J., Ph.D., *President*
REV. A. B. CORRIGAN, S.J., M.A., *Dean of Faculties*
REV. FRANCIS J. KANE, S.J., M.A., *Treasurer*
REV. ARTHUR S. WHARTON, S.J., M.A., *Librarian*
MRS. RUTH BRAND JOHNSON, B.S., *Registrar*

EXECUTIVE BOARD

VERY REV. ALBERT A. LEMIEUX, S.J., Ph.D., *President, Chairman*
REV. GERALD R. BEEZER, S.J., Ph.D.
REV. FRANCIS J. KANE, S.J., M.A.
REV. A. B. CORRIGAN, S.J., M.A.
REV. JAMES B. MCGOLDRICK, S.J., Ph.D.
MR. STANLEY J. PADDEN, LL.B., *Legal Adviser*
MR. CHARLES P. MORIARITY, LL.B., *Legal Adviser*

COMMITTEES*

The following committees are appointed for the Scholastic Year, September 15, 1948, to August 15, 1949.

Admissions and Degrees

Fr. Corrigan, Chairman; Fr. McNulty, Dr. Volpe, Miss Vizetelly, Fr. McGoldrick, Fr. Beezer, Fr. Conway, Mrs. Johnson, Fr. Schmid, Fr. Peronteau, Fr. Reidy.

Faculty Rank and Tenure

Fr. Corrigan, Chairman; Fr. Conway, Fr. Beezer, Fr. McNulty, Fr. McGoldrick, Fr. Carmody.

Library Committee

Fr. Wharton, Chairman; Fr. Beezer, Fr. Conway, Fr. Flajole, Dr. Volpe, Mr. Olmer, Miss Vizetelly, Fr. McGarrigle, Fr. McGoldrick.

Programs of Study and Catalogues

Fr. Corrigan, Chairman; the deans of the schools, and the heads of departments and advisors.

Discipline

Fr. Logan, Chairman; Fr. McGuigan, Mrs. Leonard, Fr. McCusker, Fr. Marshall.

School of Nursing

Miss Vizetelly, Chairman; Fr. Beezer, Fr. Corrigan, Fr. Codd, Sister Elizabeth Claire.

* The President is ex-officio a member of every committee.

FACULTY 1948 - 1949

- AKLIN, WALTER, B.M., *Piano* (1935), Assistant Professor
Conservatory of Zurich, Switzerland, (Absolutorial) 1924, Piano
B.M. Seattle College 1942
- ARMSTRONG, FRANCIS, *Violin* (1935), Lecturer
- BARNAUD, ERNEST, A.B., M.A., *English* (1946), Instructor
A.B., Assumption College 1941, M.A., Boston University 1942
- BEEZER, GERALD R., S.J., M.A., M.Sc., Ph.D., *Chem.* (1935), Professor
M.A., Gonzaga 1922, M.Sc., Gonzaga 1933, Ph.D., U. of W., 1946
- BERENS, S. N., M.D., *Nursing* (1937), Lecturer
M.D., Creighton University, 1928
- BLANK, ALFRED F., *Machinist* (1946)
- BOARDMAN, ELLA, *Voice* (1936), Lecturer
- BOWERS, J. M., M.D., *Nursing* (1946), Lecturer
M.D., University of Michigan, 1925
- BRUENNER, B. F., M.D., *Nursing* (1933), Lecturer
M.D., University of Minnesota, 1929
- BUSSY, JOSEPH GERARD IGNATIUS, S.J., L.Ph., S.T.L., *Philosophy* (1948), Instructor
L.Ph., Gregorian University, 1933
S.T.L., Gregorian University, 1937
- CALLAGHAN, JOHN, M.D., *Nursing* (1947), Lecturer
M.D., McGill University, 1942
- CARMODY, ROBERT J., S.J., A.B., M.A., *English* (1933), Assistant Professor
A.B. Gonzaga 1931, M.A. Gonzaga 1932; Candidate Ph.D., University of Washington
- CARMODY, WALTER R., Ph.D., *Chemistry* (1947), Associate Professor
B.S., Chemical Engineering
M.S., Ph.D., Catholic University of America, 1926
- CHARBANEAU, SR. JOAN FRANCIS, B.S., *Nursing* (1948), Supervisor and Instructor
in Obstetrical Nursing
B.S. in Nursing, Seattle College, 1946
- CLEVELAND, HENRY, *Trumpet* (1945), Lecturer
- CODD WILLIAM, S.J., A.B., M.A., *Education* (1947), Lecturer
A.B., Gonzaga 1936; M.A., Gonzaga 1938; Ph.D., Candidate University of Washington
- CONWAY, VINCENT M., S.J., A.B., M.A., S.T.L., *History* (1940), Associate Prof.
A.B., Gonzaga 1934; M.A., Philosophy, Gonzaga 1935
M.A., History, Loyola University, 1937
S.T.L., Alma College, 1936

- CORRIGAN, ANTHONY B., S.J., A.B., M.A., *Dean* (1944), Assistant Professor
A.B., Gonzaga 1935; M.A., Gonzaga 1936
- CORRIGAN, JOHN L., S.J., B.A., M.A., Ph.D., *Commerce & Finance* (1948),
Assistant Professor
B.A., Gonzaga 1933; M.A., Gonzaga 1934; Ph.D., Catholic U., 1948
- CRAWLEY, W. GREGORY, A.B., *English* (1948), Instructor
A.B., St. Martin's College, 1948
- CURRAN, HELEN, B.S., *Nursing* (1948), Instructor
B.S. in Nursing, Seattle College, 1943
- DOBBS, HERBERT J., B.S., *Commerce and Finance* (1947), Lecturer
B.S., University of Washington, 1941
- DODD, LOUIS SMITH, B.S., *Engineering* (1947), Instructor
B.S., Electrical Engineering, 1934
- DODDS, G. A., M.D., *Nursing* (1947), Lecturer
M.D., Northwestern University, 1936
- DONOVAN, JOSEPH, S.J., A.B., M.A., Ph.D., *History* (1948), Assistant Professor
A.B., Gonzaga; M.A., Gonzaga; Ph.D., University of Pennsylvania
- ENGLER, CANDUS, B.S., *Registrar*, Providence Hospital Division (1947)
B.S., South Dakota State College, 1933
- EARL, ARTHUR C., S.J., B.S., M.A., *Veterans Coordinator* (1944), Instructor
B.S., Creighton University, 1928; M.A., Gonzaga, 1937
- FENTON, WILLARD M., A.B., *Assistant Director of Athletics* (1946)
A.B., Seattle College, 1946
- FLAJOLE, EDWARD S., S.J., A.B., M.A., *German* (1944), Associate Professor
A.B., Gonzaga, 1925; M.A., Gonzaga, 1926
- GAFFNEY, LEO, S.J., A.B., M.A., M.S., *Civil Engineering*, Assistant Professor
A.B., Gonzaga, 1925; M.A., Gonzaga, 1926; M.S., Stanford University, 1948
- GALLEY, NEWTON WILLIAM, *Commerce and Finance* (1946), Lecturer
B.S.C., Racine's Western Institute, 1941, C.P.A.
- GARCIA, EFRAIN, A.B., *Language* (1948), Instructor
A.B., Louisiana State University, 1940
- GILMORE, JAMES A., S.J., A.B., M.A., S.T.D., Ph.D., (1941), Associate Professor
A.B., Gonzaga, 1917; M.A., Gonzaga, 1918
Ph.D., S.T.D., Valkenburg, 1925
- GLEDHILL, ALVIN F., B.S., *Engineering* (1947), Instructor
B.S., Mechanical Engineering, University of Washington, 1942
- GODFREY, J. E., M.D., *Nursing* (1947), Lecturer
M.D., University of Toronto, 1902

- GREENER, JOSEPH H., *Organ* (1943), Lecturer
- HAMMOND, ROCKWELL, *Commerce and Finance* (1946), Lecturer
Executive Bon Marche Department Store
- HANNUM, LELAND, *Journalism* (1948)
- HARPER, RICHARD, C.P.A., *Commerce and Finance* (1945), Lecturer
- HICKEY, RICHARD, B.A., Ph.D., *English* (1947), Associate Professor
B.A., University of Dayton, 1922
Ph.D., University of Fribourg, Switzerland
- IVEY, MARGARET A., B.S., *Zoology* (1946), Associate Instructor
B.S., University of Washington, 1936
- JANKEVICIUS, VITAS Z., *Physics* (1948), Instructor
B.S., University of Vyntantas, Lithuania, 1940
M.S., University of Vilnius, Lithuania, 1944
- JOHNSON, J. L., B.A., *Secretarial Studies* (1948), Lecturer
B.A., University of Washington 1946
- JOHNSON, CARL E., Ph.B., *Commerce and Finance* (1946), Instructor
Ph.B., Gonzaga, 1939
- JOHNSON, RUTH BRAND, B.S., *Registrar* (1943)
B.S., Seattle College, 1942
- JOYCE, WILLIAM JOHN, S.J., A.B., M.A., *Philosophy* (1948), Instructor
A.B., Gonzaga University, 1939
M.A., Gonzaga University, 1940
- KANE, JOSEPH S., B.S., M.A., J.D., *Commerce and Finance* (1945), Assistant Prof.
B.S., New York University
M.A., Economics, New York University, 1938
J.D., New York University, 1937
- KANE, FRANCIS, S.J., B.A., M.A., *Treasurer* (1940-44) (1947)
B.A., Gonzaga, 1922
M.A., Gonzaga, 1923
- KANTNER, JEAN W., *Voice* (1948), Instructor
A.B., Music, University of Washington
- KAPLAN, CHARLES, M.D., *Nursing* (1926), Lecturer
M.D., University of Toronto, 1937
- KIRKSMITH, KARL, *Violoncello* (1948), Instructor
- KLCSE, ORRAL M., A.B., M.S., *Mathematics* (1946), Instructor
A.B., University of California, 1934
M.S., University of Chicago, 1939
- KOHL, HENRY H., S.J., A.B., M.A., *Philosophy* (1943-44), (1947), Asst. Prof.
A.B., Gonzaga 1934; M.A., Gonzaga 1935; Candidate Ph.D., Georgetown U. 1947

- LACUGNA, CHARLES S., M.A., *Political Science* (1947), Instructor
B.A., Manhattan College, 1937
M.A., Fordham, 1944
Candidate, Ph.D., Notre Dame, 1948
- LAMOTTA, JULIUS, S.J., A.B., M.A., *Language* (1941), Associate Professor
A.B., Gonzaga, 1915
M.A., Seattle College, 1938
- LEAVITT, HELEN, B.S., *Nursing* (1946), Instructor
B.S. in Nursing, Seattle College, 1945
Candidate M.S. in Nursing Education, Catholic University
- LEONARD, MARIE S., A.B., M.A., *Dean of Women* (1937), Instructor
A.B., Seattle College, 1937; M.A., Seattle College, 1938
- LINDEKUGEL, FRANCIS J., S.J., A.B., M.A., *Religion* (1946), Assistant Professor
A.B., Gonzaga, 1937; M.A., Philosophy, Gonzaga, 1938
- LOGAN, FRANCIS J., A.B., M.A., *Languages* (1944), Assistant Professor
A.B., Gonzaga, 1925; M.A., Gonzaga, 1926
- LONE, WILLIAM, A.B., *Mathematics* (1946), Instructor
A.B., Duke University, 1942
- LUGER, PAUL, S.J., M.A., M.S., *Physics* (1946), Assistant Professor
M.A., Gonzaga, 1936; M.S., Fordham University, 1946
- LYON, JOHN McDONALD, *Organ* (1945), Lecturer
B.A., University of Washington, 1945
- MACAMY, E. T., M.D., *Nursing* (1947), Lecturer
M.D., Northwestern University, 1939
- MARTIN, EUNICE, B.S., *Home Economics* (1948), Instructor
B.S., University of Washington, 1944
Candidate M.S., University of Washington
- MELANSON, GEORGE A., Ph.B., M.A., *Language* (1948), Instructor
Ph.B., St. John's Seminary, 1937
M.A., Boston College, 1947
- METCALFE, JAMES VERNON, LL.B., *Commerce and Finance* (1948), Lecturer
LL.B., University of Washington, 1909
- MARSHALL, CLAIR, S.J., A.B., M.A., *Chemistry* (1933) (Leave of absence), Instruc.
A.B., Gonzaga, 1932; M.A., Gonzaga, 1933
- MCCUSKER, OWEN, S.J., A.B., M.A., *Latin* (1947), Instructor
B.A., Gonzaga University, 1938; M.A., Gonzaga University, 1939
- MCDONNELL, C. J., S.J., A.B., M.A., *Education* (1947), Lecturer
A.B., Gonzaga University, 1925; M.A., Gonzaga, 1926
- McGARRIGLE, FRANCIS, S.J., M.A., Ph.D., S.T.D., Mag., A.G., *Philosophy* (1937)
Professor
M.A., Gonzaga, 1914; Ph.D., S.T.D., Volkenburg, Holland, 1923
Mag. Ag., Gregorian, 1925

- McGOLDRICK, JAMES B., S.J., A.B., M.A., S.T.D., Ph.D., *Education* (1931), Prof.
A.B., Gonzaga, 1923; M.A., Gonzaga, 1924; S.T.D., Gregorian University, 1931
Ph.D., University of Washington, 1935
- McGUIGAN, JAMES T., S.J., A.B., M.A., *Philosophy* (1946), Assistant Professor
A.B., Gonzaga, 1929; M.A., Gonzaga, 1930
- McINERNEY, THOMAS J., A.B., M.A., *English* (1948), Instructor
A.B., Dartmouth, 1946
M.A., Boston College, 1948
- McLELLAND, J. W., B.S., *Commerce and Finance* (1947), Instructor
B.S., Business Administration, Seattle College, 1946
Candidate M.A., University of Washington
- McNAUGHTON, STANLEY O., B.C.S., *Commerce and Finance* (1947), Instructor
B.C.S., Commercial Science, Seattle College, 1947
Candidate M.A., University of Washington
- McNULTY, EDMOND, A.B., M.S., *Engineering* (1944), Associate Professor
A.B., Gonzaga, 1931; M.S., Mathematics, Gonzaga, 1933
B.S., Engineering, Gonzaga, 1941
- NARODICK, P. H., M.D., *Nursing* (1941), Lecturer
M.D., University of Illinois, 1934
- NEWSOM, BRYAN, M.D., *Nursing* (1934), Lecturer
M.D., Northwestern University, 1930
- NICHOLS, RAYMOND, S.J., A.B., M.A., Ph.D., *History* (1930), Professor
A.B., Gonzaga, 1921
M.A., Gonzaga, 1922
Ph.D., Gregorian University, 1928
- O'CALLAGHAN, LOUIS THOMAS, S.J., A.B., M.A., Ph.D., Assistant Professor
A.B., Gonzaga University, 1930; M.A., Gonzaga University, 1931;
Ph.D., Fordham University, 1940
- OLMER, JOHN ARTHUR, Ph.B., M.A., *English* (1939-42)-(1946), Assist. Professor
B.D., Seattle College, 1935
M.A., University of Washington, 1946
Ph.D., Candidate, University of Washington
- PEACOCK, A. H., M.D., *Nursing* (1937), Lecturer
M.D., University of Pennsylvania, 1903
- PHILLIPS, RONALD, *Clarinet* (1940), Lecturer
- PERONTEAU, HOWARD F., S.J., A.B., M.A., Ph.D., *Sociology* (1931), Professor
A.B., Gonzaga, 1921; M.A., Gonzaga, 1922; Ph.D., Gregorian U., 1935
- PODBIELANCIK, VINCENT, B.S., *Chemistry* (1947), Instructor
B.S., Seattle College, 1938
- READ, DAVID H., B.S., Ph.D., *Chemistry* (1948), Assistant Professor
B.S., Chemistry, Seattle College, 1942
Eli Lilly Fellowship, 1946; Ph.D., Notre Dame University, 1948

- REIDY, DANIEL, S.J., B.A., M.A., Ph.D., *Philosophy* (1930), Professor
B.A., Gonzaga University, 1907; M.A., Gonzaga University, 1908
Ph.D., Gregorian University, Rome, 1916
- RICHARDSON, ARCHIE, B.A., B.S.S., *Creative Writing* (1940 (1944) 1947), Lect.
B.A., Seattle College, 1927
B.S.S., Seattle College, 1938
- ROBINSON, LEO J., S.J., A.B., M.A., Ph.D., *Sociology* (1948), Associate Professor
A.B., Gonzaga University, 1922
M.A., (Philosophy), Gonzaga University, 1923
M.A., (Sociology), St. Louis University, 1931
Ph.D., St. Louis University, 1934
- ROSS, THEODORE J., B.S., M.B.A., *Commerce and Finance* (1947), Assist. Professor
B.S., University of California, 1932
M.B.A., University of Chicago, 1946
- SCHIAK, J. M., M.D., *Nursing* (1946), Lecturer
M.D., University of Oregon, 1933
- SCHMID, LEO J., S.J., B.A., M.A., M.S., Ph.D., *Biology* (1947), Assistant Professor
B.A. and M.A., Gonzaga University, 1932, 1933
M.S., Marquette University, 1942
Ph.D., Fordham University, 1947
- SIMEON GOLDIE, B.S., M.S., *Home Economics* (1948), Instructor
B.S., University of Washington, 1945
M.S., University of Washington, 1947
- SIMMONS, KATHERINE, B.S., *English* (1948), Instructor
B.S., University of Washington, 1930
Candidate M.A., Washington State College
- SMED, CAROLINE GEARHART, B.A., *Speech* (1948), Lecturer
B.A., University of Washington, 1935
Candidate M.A., University of Washington
- SMEDLEY, FRANCIS JOSEPH, B.S., *Mathematics* (1940), Instructor
B.S., United States Naval Academy, 1933
- SMITH, HELEN LOU, B.S., *Nursing* (1947), Instructor
B.S. in Nursing Education, Seattle College, 1948
- SOREGHAN, PHILIP, S.J., M.A., S.T.L., *Religion* (1946), Assistant Professor
A.B., Gonzaga, 1928; M.A., Gonzaga, 1929
S.T.L., Alma College, 1937
- SPEIR, E. B., M.D., *Nursing* (1946), Lecturer
M.D., University of Kansas, 1933
- SPENCER, EUNICE, A.B., B.A., *Assistant Librarian* (1945)
A.B., University of Washington, 1916
B.A. in Librarianship, University of Washington, 1945
- STEINER, ANNA MAE, *Nursing* (1947), Instructor
- STERN, GUSTAVE, *Music* (1946), Lecturer
University of Leipzig, 1922, and Colonge, 1923

- SZEGO, GEORGE C., B.S., M.A., *Chemical Engineering* (1948), Instructor
 B.S., University of Denver, 1947
 Candidate M.S., University of Washington, 1948
- STRUB, MARGARET CURTIN, B.S., M.A., *Philosophy* (1947), Lecturer
 Ph.B., Loyola, 1940; B.E., Chicago Teachers College, 1941
 M.A., Loyola, 1942; Candidate Ph.D., Loyola
- SUCHER, VIVIAN M., B.S., M.N., (1948), Instructor in Surgical Nursing
 B.S., University of New Hampshire, 1944
 M.N., Yale University, 1946
- SUNDSTEN, JOHN *Piano* (1948), Instructor
- THOMAS, ALICE E., B.S., M.A., *Home Economics* (1947), Assistant Professor
 B.S., Bethany College, Kansas, 1929
 M.A., Teachers College, Columbia University, 1932
- THOMAS, J. S., M.D., *Nursing* (1936), Lecturer
 M.D., University of Oregon, 1907
- TYRELL, SISTER ELIZABETH CLARE, F.C.S.P., B.S., (1947), Director
 Providence Hospital Division
 B.S. in Nursing, University of Washington, 1934
- VACHON, HAYDEN, S.J., B.A., M.A., *English* (1948), Instructor
 B.A., Gonzaga, 1931; M.A., Gonzaga, 1932
- VERHONICK, PHYLLIS, B.S., *Nursing* (1947), Instructor
 B.S. in Nursing, University of Portland, 1944
- VIZETELLY, NAZLEH, R.N., M.A., *Dean, School of Nursing* (1944)
 M.A., New York University, 1946
- VOLPE, PAUL A., A.B., M.A., Ph.D., *Dean, Commerce and Finance* (1944),
 Associate Professor
 A.B., University of British Columbia; M.A., Catholic University, 1941
 Ph.D., Catholic University of America, 1943
- WERBY, HELEN, B.S., M.S., Ph.D., *Biology* (1937), Associate Professor
 Ph.D., University of Washington, 1938
- WHARTON, ARTHUR, S.J., A.B., M.A., *Librarian* (1940)
 B.A. in Librarianship, University of Washington, 1943; M.A., Gonzaga, 1932
- WRIGHT, WILLIAM, *Clarinet* (1948), Instructor
 B.A. in Music, University of Washington, 1941
- YAMAGUCHI, CATHERINE, B.S., M.A., *Health Coordinator* (1947), Instructor
 B.S. in Nursing, Seattle College, 1942
 M.A., Columbia University, 1946
- YOURGLICH, MARIE, B.S., *Sociology, Secretarial Science* (1946), Instructor
 B.S., Seattle College, 1945
- YOURGLICH, ANITA, B.S., M.A., *Sociology*
 B.S., Seattle College, 1945
 M.A., St. Louis University, 1948
- ZIMMERMAN, B. M., M.D., *Nursing* (1945), Lecturer
 M.D., North Dakota University and Northwestern University, 1937

GENERAL INFORMATION

Location

Seattle University is located at 900 Broadway near the civic center of the city of Seattle, Washington. Seattle is the gateway to Alaska and the Orient, and is the cultural, industrial and recreational metropolis of the Pacific Northwest.

History

Seattle University was founded in 1891, and received its charter from the State of Washington in 1898 under the corporate title of "Seattle College," with power to confer such academic degrees and honors as are conferred by similar institutions and colleges of learning in the United States.

The origins of Seattle University date back to the arrival in Seattle of the Rev. Victor Garrand, S.J., and the Rev. Adrian Sweere, S.J., on September 27, 1891, with the intention of founding an institution of higher learning. They first established themselves in Saint Francis' Hall, located on Sixth and Spring Streets, which they used for a church and school. The building was rented from the Rev. P. X. Prefontaine until the fathers were able to provide themselves with a permanent location in the city. The block on the corner of Broadway and Madison was secured in 1891, and in 1893 was laid the cornerstone of the building which was to serve both as a college and as the first Immaculate Conception Church.

With the advent of Rev. Conrad Brusten, S.J., and Rev. Patrick Mahony, S.J., in 1894, students were enrolled in the "Academic" course of studies. The years that followed were years of struggle. In the midst of pioneer conditions the college had been founded, and thus it was not until the year 1900 that the collegiate course was begun with the class of "Humanities." The next year was announced the inauguration of graduate studies: "For the degree of Master of Arts it will be required that the applicant shall have continued his studies in this course (classical) a Fifth Year or practised a learned profession for two years."* At the request of former students a special night course in philosophy was added to the curriculum in 1907.

With the almost unprecedented progress of the city in population during the succeeding years, the institution felt the need of expansion. This was realized in 1918, through the munificence of Mr. and Mrs. Thomas C. McHugh. A seven acre campus along Interlaken Boulevard and two buildings, admirably suited to scholastic needs, were presented to the college. The new site was ready for the faculty and students at the opening of the fall season of 1919.

In the fall of 1931 it was decided to separate the college from the high school. The high school remained at Interlaken Boulevard and the college returned to Broadway and Madison.

A school of nursing education was added to the faculties in 1933, when the Providence Hospital School of Nursing was affiliated with the college. The rapid growth of the student body during the next ten years under Rev. Francis E. Corkery, S.J., president, and the Rev. James B. McGoldrick, S.J., dean, was further accelerated in 1941, by the construction of an imposing liberal arts building on the original campus. A school of engineering was organized in 1941, and a building adjoining the campus on E. Spring and Tenth was acquired the following year to provide the requisite laboratory facilities. In 1945 the School of Commerce and Finance was established. This expansion and growth made Seattle University the largest Catholic college on the Pacific Coast. On May 28, 1948, the University charter was granted by the State Department in Olympia and Seattle College became known as Seattle University.

The Aim of Jesuit Education

The aim of the Jesuit educational system at Seattle University is fixed by the Christian and specifically Catholic concept of the complete nature and final destiny of man. Seattle University, therefore, directs its efforts to forming as

*Seattle College Bulletin, 1901, p. 9.

well as informing man whole and entire, soul united to body, mind with heart, in the "aggregate of human life, physical and spiritual, intellectual and mortal, individual, domestic and social." To educate an unchanging nature in the midst of a changing world, the college strives both to present to young Americans the complex problems of modern life and to assist them to solve these problems by the aid of external principles.

Realizing that neither age nor modernity is the final touchstone of truth, the Jesuit fathers and lay faculty of Seattle University have as their objective to educate youth by the light of the tested wisdom of the past, in the academic and practical concerns of the present, in order to form for the future the true and finished man of character and culture.

ACCREDITATION

Seattle University is a member of, or approved by

The Jesuit Educational Association

The National Catholic Educational Association

The Northwest Association of Colleges

By virtue of this membership credits are recognized by the North Central Association of Colleges, the Association of the Middle States and Maryland, the New England Association and the Southern Association.

The Washington State Board of Education

The American Medical Association

The American Society of Clinical Pathologists

The Association of American Colleges

American Council of Education

ADMISSION

Seattle University divides the scholastic year into four equal periods which are called the Fall, Winter, Spring and Summer Quarters. The Summer Quarter is not a necessary part of the school year but it will continue in the post-war period to be a full quarter in order that veterans may accelerate their college education. The four year curriculum of studies can be completed in three years by attendance at the summer sessions. Students may enter the University at the beginning of any one of the four Quarters.

Application

Application for admission shall be made to the Registrar of Seattle University, 900 Broadway, Seattle 22, Washington. This application accompanied by proper credentials shall be filed with the registrar at least two weeks in advance of the date of registration. Credentials which are accepted toward admission become the property of Seattle University and are filed permanently with the registrar.

Methods of Admission

1. High School Graduates

Admission is granted on presentation of a certificate of graduation from an accredited high school, with the recommendation of the principal.

A high school is accredited if it is on the approved list of the Northwest Accrediting Association or other recognized state or regional standardizing body.

The certificate of graduation should include 16 units in acceptable subjects. A unit represents a year of study in any subject in a secondary school, covering an academic year of at least 36 weeks, five periods per week, each period being at least 45 minutes.

The following units are required of all registrants:

English	3
Algebra	1
Geometry	1
History and Civics.....	1
Natural Science	1

If circumstances justify, a student may be admitted with a deficiency. Any deficiency must be removed before the beginning of the sophomore year. Laboratory science deficiencies are the only ones which may be made up in college with college credit.

2. Entrance Examinations

Admission is granted through the successful passage of entrance examinations. Freshmen not presenting satisfactory entrance credentials must pass an examination in subjects so chosen as to satisfy specific entrance requirements.

3. College Transfer Students

Admission is granted to the student who presents a satisfactory record from a college or university of recognized standing.

A student entering from another college or institution of collegiate rank, must furnish from such institution (1) a certificate of honorable dismissal; (2) an official transcript of all college credits together with entering high school units; (3) a grade point average of 2.0 (a grade average of C), for the term immediately preceding application for admission to Seattle University.

Allowance of advanced credit:

Students who have completed advanced study in colleges and universities of recognized rank, will be allowed whatever credit is acceptable to Seattle University.

Credit from Junior Colleges must not exceed in amount one-half the number of hours required for graduation from a four-year curriculum.

For a full academic year the maximum amount of credit allowed is one-fourth of the number of hours required for graduation from a four-year curriculum.

The senior year is required in residence. In no case will more than three years of credit (135 quarter credits) be accepted toward a bachelor's degree requiring four years of college study. The entire last year of work (45 quarter credits) must be earned at Seattle University.

4. Adult Special Students

Admission is granted to those men and women who qualify as adult special students. Such students must:

Be at least twenty-one years of age.

Submit all available credentials and records of previous work in secondary schools and colleges.

Secure the consent of the Committee on Admissions.

A special student is not eligible for any degree, but may become a regular student and a candidate for a degree by completing the admission requirements of the department in which he is registered.

5. Foreign Students

Admission is granted to foreign students who present credentials which indicate satisfactory preparation for the courses such students desire to pursue.

6. Auditors

A student eligible for regular or for special standing may enroll as an auditor, after securing the consent of the dean and the instructor of the course.

Students who attend classes as auditors shall in no case be permitted to take examinations or to obtain credits for such courses. They shall, however, register in the regular manner and pay the regular fee.

Enrolling in Courses

Students who have not chosen their Major field of study should consult the Dean of the University who will assist them in the selection of their course. Those who have already chosen their Major should, at the beginning of each quarter, arrange their schedule of studies with the advice and the assistance of their departmental advisor. A regular course consists of 15 credit hours plus the required religion. Registration is not complete until the student has filed his high school credentials or college transcript in the office of the registrar and has received class admittance permits from the office of the treasurer.

REGISTRATION

Late Registration

Students registering after the last date assigned for registration at the University will be charged a fee of one dollar (\$1.00) for the first day and the further cumulative fee of fifty cents (\$.50) for each additional day thereafter up to a total of four dollars (\$4.00). After the first week of instruction no student will be permitted to register except with the consent of the dean and payment of late registration fee.

Change of Registration

A fee of two dollars (\$2.00) is charged for each subject change of registration, even though a number of such changes is made simultaneously. No charge is made when the change is made at the initiative of the University.

Withdrawal from Classes

A student may withdraw from a course any time during the quarter. If the withdrawal is made prior to two weeks before the end of the quarter, he receives "W" (Withdrawal). If the withdrawal is made in the period within two weeks before the end of the quarter, and student has been doing satisfactory work, he receives "I" (Incomplete). If his work has not been satisfactory, he receives "F" (Failure). All withdrawals to be official must have the signature of the Instructor of the course and the Dean of the School or College. Unofficial withdrawal is indicated by "UW" (Unofficial Withdrawal). Veterans withdrawing must have the approval of the Veterans' Administration.

Classification of Students

Those students are ranked as Sophomores who have at least forty-five quarter hours with an average of C, Juniors, those who have completed ninety quarter hours with an average of C; Seniors, those who have completed one hundred and thirty-five quarter hours with an average of C.

ADMINISTRATIVE PROCEDURE

Consultation with Instructors

As the members of the faculty of the University are deeply interested in the students' progress, they will be glad to give special help and attention to students whenever such assistance is reasonably requested.

Quarter Hour

The unit of instruction is one hour a week for one quarter. Two hours of work in the laboratory are considered equivalent to one hour of recitation. This unit is called a quarter hour. Therefore, for example, if five quarter hours credit is granted for a subject, there will be five hours of instruction in that subject each week or equivalent two hour periods of laboratory. 180 quarter hours, plus 12 quarter hours in religion for Catholic students, or 12 quarter hours of electives for non-catholic students, are required for a degree at Seattle University.

Major and Minor

Each student in the College of Arts and Sciences and the School of Education should, before the end of the sophomore year, arrange his work to center around some subjects or departments. Such concentrations are called his Major and his Minor.

The various departments of instruction are divided into three groups:

Group I	Group II	Group III
English	Economics	Biology
Latin	Education	Chemistry
Greek	History	Mathematics
French	Philosophy	Physics
German	Political Science	
Music	Psychology	
Spanish	Sociology	
Speech		
Journalism		

Every student who intends to take a degree in regular courses is required to complete a major in one subject and a minor in a related subject. The major and minor concentrations require the completion of the subjects and the number of hours specified by each school or college.

Courses passed at D grade are not counted toward the fulfillment of the requirements in the major or minor concentration. The cumulative grade point average in the major or minor sequence must be at least 2.0.

Electives

Courses (a) not taken as prescribed courses, and (b) not included in the student's major or minor, may be chosen as free electives to complete the 192 credits required for graduation. Electives should be chosen either with a view of supplementing concentrations or enriching cultural development.

Examinations

Examinations are given at the middle and the end of the quarter, and at such other times during the quarter as the instructors may determine. The result of the mid-quarter and final examinations, combined with the student's class work, will determine the grade for the quarter.

A student absent from a scheduled examination either through sickness or other unavoidable cause may take a special examination under the following conditions:

- (1) He shall obtain a card of authorization from the registrar upon the payment of the special examination fee.
- (2) He shall present the card to his instructor.
- (3) He shall take the examination at the time designated by the instructor.

Reports

Reports containing a record of the class work of each student are sent to parents or guardians at the end of each quarter. The mid-quarter grades are sent to students who are doing less than average work, and serve as indications of the level of work being done.

Marking System

The following is the system of grades used at Seattle University:

- A, (93-100) a superior student
 Knowledge—excellent
 Scholarship—exceeding requirements
 Information—complete and detailed
- B, (85-92) above average student
 Knowledge—very good
 Scholarship—meeting all requirements
 Information—complete but not detailed

- C, (77-84) average student
 .Knowledge—good
 Scholarship—meeting assignments but
 Information—incomplete
- D, (70-76) below average student
 Knowledge—fair
 Scholarship—not meeting assignments
 Information—lack of essential and/or false information
- E, failure; I, incomplete; N, hyphenated course which will be completed in a following quarter; W, withdrawn; UW, failed to withdraw officially.

Grade Points

Grade points are computed according to the grade a student obtains in his work. For a grade A in a given course the student will receive four times as many grade points as there are quarter hours in that course; for a grade of B, three times as many grade points; for a grade of C, twice as many grade points; for a grade of D, as many grade points as there are quarter hours of credit. An I and a W count neither as registered hours nor grade points.

Grade Point Average

In order to compute the grade point average, divide the sum of the total number of grade points by the sum of the total number of quarter hour credits.

Incompletes

An "Incomplete," I, is given only in case the student has been in attendance and has done satisfactory work to a time within two weeks of the close of the quarter. To remove the "incomplete" and assure credit the work must be completed within one month after the beginning of the following quarter, otherwise the course shall be reported with the grade of "E." To remove an "I," by the completion of the work or by a special examination, the student must first secure from the registrar a card of authorization, upon the payment of the special examination fee. The card shall be presented to the instructor and the work completed or examination taken at the times designated by the instructor.

Change in Grade

A change in grade can be made only upon the written petition of the instructor to the Dean of Faculties.

Repeating of Course

Students who have received grade of "D" or "E" may repeat the course in which these grades were obtained and in such cases the grade received the second time shall be the one counted in computing the average required for graduation. For the purpose of determining university honors only the grade received the first time shall be counted.

Probation

Any student failing in any quarter to make one and one-half (1.5) times as many grade points as he has registered hours shall automatically be placed on probation. A student shall remain on probation until his grade points both for the previous quarter and for his entire record are twice as many as his registered hours. During the period of probation no student will be permitted to represent the college in any activity. No student shall be eligible for medals or honors of any kind whose grades during any quarter of the current academic year were such as to place the student on probation.

No student shall be permitted to register for an additional quarter if during two consecutive quarters, while on probation, he has made less than a 1.5 grade point average in each of these quarters. Any student on probation who incurs two failures in any one quarter will be requested to withdraw from the University. Reinstatement of a student dismissed for poor scholarship shall be allowed only after the lapse of one quarter and by special action of the Committee on Admissions.

Class Absence

Students are required to attend all scheduled class exercises and recitations. A student will be liable to receive an E in a course if he has not attended at least eighty-five per cent of his class periods. Absence shall be counted from the first regularly scheduled meeting of the class each quarter. The roll is called immediately at the beginning of each class exercise. Tardiness counts for absence.

Representing Seattle University

No student is eligible to represent Seattle University in any student activity unless he is registered for at least 10 quarter hours of regular courses. He must have passed 10 quarter hours of the curriculum for which he was registered for the quarter of residence previous to participation and must not have been placed on probation during the scholastic year.

Honorable Dismissal

A student withdrawing voluntarily from the University is entitled to honorable dismissal under the following conditions:

1. He must be in good standing with the University, i.e., not liable to dismissal on account of failure, excessive absence, tardiness, or breach of discipline.
2. He must make written application to the Registrar.
3. All financial indebtedness must be settled with the University.

Out of Town Students

All undergraduate students not living at home or with immediate relatives are required to live in houses inspected, approved and supervised by the University Administration. A list of such approved living quarters for students may be obtained from the Office of the Dean of Women.

Annual Retreat

The Annual Retreat or Spiritual Exercises is intended for all students. The exercises of the first two days of the retreat treating of topics that concern man as man are obligatory on all, including non-Catholic students. The exercises of the third day of the retreat are optional to non-Catholics.

GRADUATION**Application for Degree**

A student shall, by the end of the Winter Quarter, file with the registrar a written application for his degree.

Requirements for Graduation

1. The completion of 180 quarter hours of credit, 60 hours of which are in upper division courses, with a grade point average of 2.0. For Catholic students, the completion of 12 additional quarter hours in religion; for non-Catholic students, the completion of 12 additional quarter hours of electives.
2. The completion of a major and minor sequence selected from related fields.
3. An average grade of C or better in all required courses.
4. All candidates for the Bachelor's degree except those in the School of Nursing, Department of Home Economics and the Medical Technicians, must receive a passing grade in a comprehensive oral examination in philosophy. Catholic students are required to pass an oral examination in religion.
5. The senior year must be spent in residence at Seattle University. A scholastic year shall be understood to contain three quarters of full time study earning 45 quarter hours of credit.
6. All candidates for degrees must be present at the Commencement Exercises to receive their diplomas.

Graduation Honors

Graduation with honors at Seattle University requires the earning of at least 90 quarter hours as a Junior and Senior at Seattle University, the securing of at least the grade B in the comprehensive oral examination, and the attainment of

a high grade point average in the four year curriculum of studies. A candidate who has made an average of 3.25 graduates Cum Laude; one who has made an average of 3.5, Magna Cum Laude; one who has made an average of 3.75, Summa Cum Laude. These honors are inscribed on the diplomas.

Graduation Catalogue

All students shall have the option of being held to the graduation requirements of the catalogue under which they enter, or those of the catalogue under which they expect to graduate. All responsibility for fulfilling the requirements for graduation rests upon the individual student concerned.

The Appointments Office

This office handles requests for varied types of employment for both men and women, ranging from junior executive positions to odd jobs. This service is available to alumni as well as registered students.

Since this office must cooperate with prospective employers only properly qualified applicants are recommended for interviewers. The Appointment Office offers opportunities for both part-time and full-time employment.

SCHOLARSHIPS

Thomas C. McHugh scholarship. A perpetual tuition scholarship awarded annually to a graduate from the Seattle Preparatory School in grateful tribute to a generous benefactor.

Father Garrard, S.J., scholarship. A tuition scholarship awarded annually by competitive examination in memory of Rev. Victor Garrard, S.J., the founder of Seattle University.

Father Sweere, S.J., scholarship. A tuition scholarship awarded annually by competitive examination in memory of Rev. Adrian Sweere, S.J., co-founder of Seattle University.

The Garrard and Sweere scholarships are awarded on competitive written examinations in United States history, civics, and high school English. The examinations are given during the month of May at places convenient for students. Any student may take this examination. In addition to being held in the various high schools throughout Washington. The examination may be taken at Seattle University on the appointed day.

The Music Department of Seattle University offers nine scholarships yearly. The students comprising the Men's Quartet and the Women's Quartet and the accompanist, are given tuition scholarships. The winners of the Music Scholarships are decided by auditions held at Seattle University. Appointments for these auditions may be made by contacting the Music Department at the University.

Seattle University awards scholarships annually to the most promising senior students from many of the Catholic High Schools in Washington, including Holy Angel's High School, Seattle; Holy Rosary High School, Seattle; O'Dea High School, Seattle; Bellarmine High School, Tacoma; and Marquette High School, Yakima.

The Seattle University Debate Society sponsors a Northwest Catholic High School Forensic Tournament each year and the best speaker in the Senior Division is given a tuition scholarship for the coming year.

Alumni and alumnae, friends of Seattle University, and all those interested in Catholic higher education are invited to establish a scholarship fund. This will associate your name, or that of a loved one, or a friend, or a group, in the memory of generations of grateful men and women who will have profited by this generosity and will carry on the ideals of Christian living in a world of scientific achievements.

A perpetual tuition scholarship requires \$8000.00

A four year tuition scholarship requires 600.00

A one year tuition scholarship requires 150.00

FORM OF BEQUEST

Seattle, Washington.....

Ihereby give, bequeath and devise to SEATTLE UNIVERSITY, a corporation duly incorporated under the laws of the State of Washington, the following

..... for the use and purposes of said corporation.

(Signed).....

Witnesses:

.....
.....

ANNUAL AWARDS

At Commencement Exercises the following awards are presented to members of the Seattle University Student Body:

The President's Cup is awarded to the most outstanding debater of the Senior Division of the Debating Society.

A Medal, the gift of Mr. and Mrs. William J. Lindberg, is presented to the most promising debater in the Junior Division of the Debating Society.

The Alumni Cups are awarded for Loyalty, leadership and participation in student activities. This award is given by the Alumni of Seattle University to the young man and young woman voted by the student body and faculty as most worthy of the honor.

The Bishop Shaughnessy Medal, an annual award graciously donated by His Excellency, the Most Reverend Gerald Shaughnessy, S.M., S.T.D., Bishop of Seattle, is presented to the senior securing the highest marks in the final examination in Philosophy and Religion.

ACTIVITIES AND ORGANIZATIONS

The Associated Students of Seattle University is the official organization of all the students attending the University. Through the Activities Board it directs and controls all student activities in the University. General meetings are held monthly. Founded 1913.

The Associated Women Students of Seattle University is an organization of all the women students of the University. It organizes and directs activities limited to women students.

The Alumni Association. Its purpose is to foster and preserve a spirit of union among its members, to assist in realizing the ideals of Seattle University and to cooperate in advancing its interests. Founded in 1905 as a Jesuit Alumni Association.

Commerce Club. Divisional Club of the School of Commerce. Meets bi-weekly. Purpose is to familiarize the students with their respective fields of business endeavor by presenting outstanding business leaders, visiting various industries, etc. All students in the School of Commerce and Finance are requested to be members.

- The Sodality of the Blessed Virgin Mary** is affiliated with the Prima Primaria in Rome. It is open to all students and meets every second week. It promotes charitable works and discusses Catholic problems. Founded on March 25, 1905.
- The Gavel Club** is a debating society open to all students. The meetings are held bi-monthly. Founded 1907.
- The Mendel Club** is open to pre-medical, pre-dental, laboratory technician and nursing students. Meetings held weekly. There is usually a visiting lecturer on medical topics. Founded in 1934.
- The Chemist Club**, founded in 1945, is open to all chemistry majors.
- Alpha Nu** is an association of pre-legal students.
- The Drama Guild** presents a number of plays each year. Any student may try-out for student productions. Founded in 1907.
- The Opera Guild** presents two operatic productions each year. Open to all University students.
- The International Relations Club.** The meetings consist of round table discussions of international topics with occasional addresses by public figures. Books are supplied by the International Relations Council, a branch of Carnegie Peace Foundations. Meetings held bi-monthly.
- The Book Review Club** meets bi-monthly to present and discuss reviews on recent publications.
- The Seattle University Spectator** is the official news organ of the student body. It is published weekly and circulates to students, alumni, colleges and friends of Seattle University. The Spectator was first published in 1933. It is managed by a student editor and staff and has a faculty moderator.
- The Aegis**, Seattle University Annual, was presented for the first time in 1937. All the material is written and arranged by the student members of the Aegis staff.
- The Wigwam Chapter of the Intercollegiate Knights** is a national service organization. Members are chosen from the freshman and sophomore male students.
- The "SU" Club.** Membership is open to undergraduates who have earned a letter in University athletics. The association was founded in 1904 to promote athletics.
- The Hiyu Coolee** is a hiking club organized to foster healthful outdoor exercise.
- The Ski Club** is organized to promote winter sports.
- Colheleon Club.** The Colheleon Club is a member of the American Home Economics Association. One of its purposes is to better the students knowledge in the various Home Economics fields. The club meets once a month. Students enrolled in the Home Economics Department are eligible to membership.
- Scots Club** "out of Towners" club. This club is expressly for those students who live out of town.
- Equestrian Club.** The Exalted Order of Equestrians is an organization for those who enjoy riding horseback and provides them with the opportunity of enjoying the sport at a low cost.
- Engineers' Club.** This Club supplements the regular curriculum with extra activities in the field of engineering, by bringing to its bi-monthly meetings, representatives from the various engineering branches to acquaint the members with problems in their field. Membership is open to all engineering students.

Forum Club. The Forum Club holds weekly round table discussions in which every member participates for the purpose of preparing themselves for competitive debating, oratory and other forms of public speaking. The club is open to lower division students.

Labor Management Forum. The Labor Management Forum is open to any student who is interested in the problems of labor and management. Noted speakers from the fields of labor, government, and industry are presented at the bi-monthly meetings. The basic issues of the problem of labor and management are exposed and students are able thereby to develop a better base for their views concerning labor problems.

Sociology Club. Started in 1947. The Sociology Club has as its objective the acquainting of the Sociology Majors with each other, and with the current development of the field.

Surf and Stream. Fishing Club open to all students. (1 cr. per qr.)

STUDENT HONORARIES

Alpha Epsilon Delta, the Washington Alpha Chapter of a National organization for pre-medical students. Any pre-medical student with a good academic record is eligible.

Alpha Tau Delta is the Seattle University Nu Chapter of the national honorary for nurses registered for a degree. Members must have a minimum of 75 quarter hours and a scholastic standing of 2.7.

Alpha Sigma Nu is a national honorary for men. Juniors and Seniors.

Gamma Sigma Alpha is a local publications honorary. The required grade point average plus three quarters on the Spectator staff or in the publicity department is necessary for membership.

Kappa Gamma Pi, Seattle University graduate women's honorary and a national organization. Graduates of any Catholic College are eligible.

Lambda Tau is a local honorary organization for laboratory technicians. Five quarters residence is required of student members.

Mu Sigma, music honorary, is open to music students.

Silver Scroll is a local women's organization with a limited active membership of fifteen. This Activities honorary requires 90 quarter hours and 2.7 academic standing for membership.

STUDENT EXPENSES

TUITION AND FEES ARE PAYABLE IN ADVANCE

TUITION

Tuition per quarter (10 to 15 hours).....	\$60.00
Extra hours (over 15) each.....	6.00
Less than 10 hours, per quarter hour.....	6.00
Music Fees:	
Voice or Instrumental Music, one-half hour lesson per week, per qtr....	25.00
Voice or Instrumental Music, one hour lesson per week, per quarter.....	50.00
Music Theory, if taken privately, one-half hour lesson per week, per qtr.	25.00
Music Theory, if taken privately, one hour lesson per week, per qtr.....	50.00
Piano Practice Room, one hour daily, per quarter.....	5.00
Organ Practice, one hour daily, per quarter.....	20.00
Night School, per course.....	10.00
Auditors, per quarter hour.....	5.00
Resident Extension courses, per quarter hour.....	5.00
*Credit by examination, per quarter hour.....	5.00

FEES

Regular Fees:

*Registration Fee per quarter.....	2.00
Library Fee per quarter	
Day Students	3.00
Student Fee per quarter.....	5.00

Occasional Fees:

*Matriculation, paid once at first entrance.....	5.00
High School Deficiency, per course	
Geometry	10.00
Algebra	10.00
English	10.00
*Change of registration, per change.....	2.00
Late registration, added to Tuition and Fees, \$1.00 for the first day and 50 cents for each additional day, not to exceed a total of.....	4.00
*Special examination	2.50
*Removal of incomplete.....	1.00
*Withdrawal Fee	1.00
One-half the tuition but no fees will be refunded if the student withdraws from school within the first five class days of any quarter.	
*Graduation Fee	15.00
Duplicate transcript	1.00
*Cap and Gown Rental.....	2.50
*Non-refundable fees.	
Special Service—Reader Service will be furnished entitled disabled veterans as required, cost not to exceed the rate of \$.75 per hour.	

Laboratory Fees:

Biology:

1, 2, 105, 106, 108.....	5.00
6, 49, 50, 51, 99, 100, 101, 102, 107, 180.....	5.00
104	5.00
Zoology 127, 128	10.00
Zoology 106	3.50

Chemistry:

137	5.00
1, 2, 11, 12, 21, 22, 23, 181, 182, 183.....	6.50
101, 109, 110, 111, 131, 132, 133, 134, 160.....	10.00
Breakage ticket, per course.....	1.00

Home Economics:

9, 10, 11, 12, 13, 14, 24, 40, 104, 105, 107, 118, 212, 128, 165, 172, 177.....	3.00
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Engineering:

Electrical, 10, 11, 12, 81, 82, 83, 91, 92, 93, 96, 97, 98, 101, 102, 103, 150, 151, 152, 160, 161, 170, 171, 180, 190, each.....	10.00
Chemical 120, 149.1, 150.1, 151, each.....	10.00
Civil 3, 4, 5, 6, 103, 104, 106, 110, 111, 112, 154, 161, 162, 173, 180, each.....	10.00
Mechanical 4, 5, 6, each.....	12.00
104, 105, 106, 107, 121, 122, 150, 161, 181, each.....	10.00

Physics:

1, 2, 3, 97, 98, 99.....	6.50
105, 106, 160, 161, 170.....	10.00

Secretarial Studies 20, 21, 22, 116, each.....	5.00
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Books may be secured at the Broadway Bookstore at current rates.

PROGRAMS OF STUDY

Rev. A. B. Corrigan, S.J., M.A., Dean

COLLEGE OF ARTS AND SCIENCES confers the following degrees:

Bachelor of Arts, A.B., with a major in economics, English, history, languages, mathematics, music, philosophy, political science, sociology.

Bachelor of Science, B.S., with a degree course in biology or chemistry; or a major in biology, bacteriology, chemistry, mathematics, physics.

Bachelor of Science, B.S., in medical technology.

Bachelor of Science, B.S., in Social Science, with a major in economics, history, political science, sociology.

Bachelor of Philosophy, B.Ph., with a major in English, languages, mathematics, music, philosophy.

Bachelor of Music, B.M., with a degree course in music.

Bachelor of Science, B.S., in secretarial studies.

Bachelor of Science, B.S., in home economics, with a major in Home Economics, General Home Economics, Institution Economics, Household Equipment and Home Planning.

SCHOOL OF COMMERCE AND FINANCE confers the following degree:

Bachelor of Commercial Science with a major in accounting, finance, foreign trade and labor.

SCHOOL OF EDUCATION confers degree:

Bachelor of Arts, A.B., with a major in education or a major selected from the arts or sciences.

SCHOOL OF ENGINEERING confers the degree of Bachelor of Science, B.S., in chemical, civil, electrical, industrial, mechanical engineering.

SCHOOL OF NURSING confers the following degrees:

Bachelor of Science, B.S., in nursing and in nursing education.

THE GRADUATE SCHOOL confers the degrees of Master of Arts, M.A., and Master of Science, M.S.

COLLEGE OF ARTS AND SCIENCES

Rev. A. B. Corrigan, S.J., M.A., Dean

Rev. V. M. Conway, S.J., M.A., Pre-Major Adviser

BACHELOR OF ARTS

The Bachelor of Arts degree is granted with a major in economics, education, English, history, languages, mathematics, music, philosophy, political science, sociology.

First Year

5 Composition 1	5 History 1	5 History 2
5 Latin	5 Latin	5 Sociology 1 or 7
5 Science or Math.	5 Science or Math.	5 Composition 2
	3 Theology 1 or 102 (for Catholics*)	
	2 Theology 3 (for non-Catholics**)	

Second Year

5 Latin	5 Logic 1	5 Psych. 1
5 Literature	5 Mod. Language 2	5 Econ. 3 or Politics
5 Mod. Language 1	5 Elective	5 Mod. Language 3
	3 Theology 104	

Third Year

5 Literature	5 Mod. Language 4	5 Speech
3 Phil. of Being 100	3 Phil. of God 101	10 Major, Minor, Elective
7 Major, Minor, Elective	7 Major, Minor, Elective	4 Theology 107 and 110

Fourth Year

5 General Ethics Pl. 150	5 Special Ethics Pl. 151	15 Major, Minor, Elective
10 Major, Minor, Elective	5 Literature	2 Theology 160
	5 Major, Minor, Elective	

* Catholic students are required to take 12 hours of Religion.

** Non-Catholic students are required to take Theology 3, and 10 hours of free Electives.

MAJOR IN BIOLOGY

The curriculum for the FIRST YEAR, SECOND YEAR, and THIRD YEAR are the same as for the degree course in biology.

Fourth Year

Select upper division courses with advice of Head of Department.

**BACHELOR OF SCIENCE
DEGREE IN BACTERIOLOGY**

First Year

5 Chemistry 1	5 Chemistry 2	5 Embryology 99
5 Anatomy 50	5 Physiology 51	5 Composition 2
5 Composition 1	5 History	5 Literature
3 Theology 1 or 102 (for Catholics*)		
2 Theology 3 (for non-Catholics**)		

Second Year

5 Chemistry 131	5 Chemistry 132	5 Chem. 160 or 23
5 Algebra 2	5 Trig. or Geom.	5 Logic
5 For. Mod. Lang.	5 For. Mod. Lang.	5 For Mod. Lang.
3 Theology 104		

Third Year

5 Bact. 102	5 Phil. of Being	5 Bact. 107
5 Psych. 1	5 Bact. 104	5 Soc. or Econ.
5 Zoology 6	5 Bact. 120	5 Speech 40
4 Theology 107; 110		

Fourth Year

5 Physics	5 Spec. Ethics 151	3 Phil. of God
5 Gen. Ethics 150	5 Physics	5 Zoology 105
5 Elective	5 Elective	2 Microtech. 106
2 Theology 160		
5 Major or Minor		

* Catholic students are required to take 12 hours of Religion.

** Non-Catholic students are required to take Theology 3, and 10 hours of free Electives.

MAJOR IN BACTERIOLOGY

Select upper division courses in the fourth year with the advice of the Head of the Department.

DEGREE IN BIOLOGY

First Year

5 Chemistry 1	5 Chemistry 2	5 Composition 2
5 Zoology 1	5 Zoology 2	5 Logic Pl. 1
5 Composition	5 History	5 Literature
3 Theology 1 or 102 (for Catholics*)		
2 Theology 3 (for non-Catholics**)		

Second Year

5 Chem. Organic 131	5 Chem. Organic 132	5 Chem. 160 or 23
5 Algebra 2	5 Trig. or Geom.	5 Speech 40
5 For. Mod. Lang	5 For. Mod. Lang.	5 For. Mod. Lang.
3 Theology 104		

Third Year

5 Bacteriology 102	3 Phil. of Being	5 Anatomy 105
5 Psychology 1	7 Elective	3 Phil. of God 101
5 Anatomy 50	5 Physiology 51	5 Embryology 99
4 Theology 107; 110		
2 Elective		

Fourth Year

5 Physics	5 Special Ethics 151	2 Microtech. Bl. 106, 2
5 General Ethics 150	5 Physics	5 Soc. or Econ.
5 Elective	5 Elective	5 Elective

Major in Biology—Select courses with advice of head of department.

General Science Minor—Select courses with advice of advisor.

* Catholic students are required to take 12 hours of Religion.

** Non-Catholic students are required to take Theology 3, and 10 hours of free Electives.

**BACHELOR OF SCIENCE
DEGREE IN CHEMISTRY**

First Year

5 Chemistry 1	5 Chemistry 2	5 Chem. Qual. 23
5 Algebra	5 Trigonometry 3	5 Anal. Geometry 6
5 Composition 1	5 Literature	5 Logic Pl. 1
3 Theology 1 or 102 (for Catholics*)		
2 Theology 3 (for non-Catholics**)		

Second Year

5 Chem. Organic 131	5 Chem. Organic 132	5 Chem. Organic 133
5 Calculus 101	5 Calculus 102	5 German 13
5 German 11	5 German 12	5 Psychology 1
3 Theology 104		

Third Year

5 Chem. Adv. Qual. 101	5 Chem. Quan. 109	5 Chem. Quan. 110
5 Physics 1	5 Physics 2	5 Physics 3
5 Speech 40	3 Phil. of Being 100	3 Phil. of God 101
7 Elective		
4 Theology 107; 110		

Fourth Year

5 Chem. Physical 181	5 Chem. Physical 182	5 Chem. Physical 183
5 General Ethics Pl. 150	5 Special Ethics Pl. 151	10 Elective
5 Soc. or Econ.	5 Elective	
2 Theology 160		

* Catholic students are required to take 12 hours of Religion.

** Non-Catholic students are required to take Theology 3, and 10 hours of free Electives.

MAJOR IN CHEMISTRY OR MATHEMATICS

First Year

5 Chemistry 1	5 Chemistry 2	5 History
5 Algebra 2	5 Trig. 3	5 Composition 2
5 Composition 1	5 History 1	5 Major
3 Theology 1 or 102 (for Catholics*)		
2 Theology 3 (for non-Catholics**)		

Second Year

5 Physics 1	5 Physics 2	5 Physics 3
5 Mod. Language 1	5 Mod. Language 2	5 Mod. Language 3
5 Logic Pl. 1	5 Psychology 1	5 Economics
3 Theology 104		

Third Year

3 Mod. Language	5 Major	3 Phil. of God 101
5 Soc. 7	3 Phil. of Being 100	10 Major, Minor, Elective
5 Speech 40	5 Literature	
5 Major		
2 Elective		
4 Theology 107; 110		

Fourth Year

5 General Ethics Pl. 150	5 Special Ethics Pl. 151	15 Major, Minor, Elective
10 Major, Minor, Elective	10 Major, Minor, Elective	
2 Theology 160		

* Catholic students are required to take 12 hours of Religion.

** Non-Catholic students are required to take Theology 3, and 10 hours of free Electives.

BACHELOR OF SCIENCE
with a
DEGREE IN PHYSICS

First Year

5 Physics 7	5 Physics 8	5 Physics 9
5 Algebra 2	5 Trigonometry 3	5 Anal. Geometry 6
5 Composition 1	5 Composition 2	5 Logic 1
		5 Literature 65
3 Theology 1 or Fund Theology 102 (for Catholics*)		
2 Theology 3 (for non-Catholics**)		

Second Year

5 Chemistry 21	5 Chemistry 22	5 Chemistry Qual. 23
5 Calculus 101	5 Calculus 102	5 Calculus 103
5 Modern Physics 100	5 Modern Physics 101	3 Gen. Metaphysics 100
	3 Theology 104	3 Moral Guidance

Third Year

5 Int. Math. Phy. 180	5 Int. Math. Phy. 181	5 Thermodynamics 150
5 Diff. Equations 114	5 Diff. Equations 115	5 Psychology 1
5 Geometrical Optics 160	5 Phy. Optics 161	4 Theology 107, 110
	5 Mechanics 120	

Fourth Year

5 Elect. and Mag. 105	5 Elect. and Mag. 106	5 Special Ethics 151
5 Theoretical Physics 198	5 Theoretical Phys. 199	3 Cytology 82
5 Biology	3 Spec. Met. 101	5 Elective
5 General Ethics 150	2 Theology 160	

* Catholic students are required to take 12 hours of Religion.

** Non-Catholic students are required to take Theology 3, and 10 hours of free Electives.

BACHELOR OF SOCIAL SCIENCE

The Bachelor of Science in social studies is granted with a major in economics, education, history, political science, sociology.

First Year

5 Composition 1	5 History 1	5 History 2
5 Mod. Language 1 or 3	5 Mod. Language 2 or 4	5 Mod. Language 3
5 Economics 1	5 Sociology 1	5 Composition 2
	3 Theology 1 or 102 (for Catholics*)	
	2 Theology 3 (for non-Catholics**)	

Second Year

5 Economics 2	5 Logic Pl. 1	5 Psychology 1
5 Science or Math.	5 Science or Math.	5 Politics
5 Literature	5 Mod. Language 4	5 Sociology 5
	3 Theology 104	

Third Year

5 Literature	3 Phil. of God 101	5 Speech
3 Phil of Being	12 Major, Minor, Elective	10 Major, Minor, Elective
5 Major, Minor, Elective	4 Theology 107; 110	

Fourth Year

5 General Ethics, Pl. 150	5 Special Ethics, Pl. 151	15 Major, Minor, Elective
10 Major, Minor, Elective	5 Politics	
	5 Major, Minor, Elective	
	2 Theology 160	

* Non-Catholics substitute electives for religion.

* Catholic students are required to take 12 hours of Religion.

** Non-Catholic students are required to take Theology 3, and 10 hours of free Electives.

**BACHELOR OF SCIENCE
DEGREE IN HOME ECONOMICS**

I. Basic Curriculum in Home Economics (For teachers and extension workers)

All general college requirements are fulfilled in this curriculum.

Electives suggested for a student planning to enter Extension work are:
H. E. 165; Speech 40; Introduction to Journalism 1.

First Year

5 Composition 1	5 Composition 2	5 Chemistry (Qual.) 23
5 Food Prep. 10	5 Food Prep. 11	5 History 2
5 Inorganic Chemistry 1	5 Inorganic Chem. 2	5 Clothing Selection and Construction 12
		2 Electives
	3 Theology 1 or 102 (for Catholics*)	
	2 Theology 3 (for non-Catholics**)	

Second Year

5 Art Structure 40	3 Theology 104	5 Bacteriology 101
5 Psychology 1	5 Social Problems 7	5 Clothing Ec. 24
5 Anatomy 50	5 Organic Chem. 137	5 Logic 1
	2 Food Economics 23	

Third Year

5 Household Equip. 107	5 Psych. of Adol. 175	5 Nutrition 13
5 Diet Ther. 104, 105	3 Home Furnish. 120	5 Mental Hygiene 195
4 Theology 107; 110	3 Household Adm. 166	5 Economics 1
3 Educat. Psych. 50	5 Textile Econ. 14	3 Child Nut. & Care 130

Fourth Year

5 The Family 160	5 Demon. Teach. 165	3 Home Ec. Educ. 168
5 Home Mgt. 170	3 Gen. Meth. 152	5 Direc. Teach. Ec. 180
5 Home Mgt. Lab. 172	5 General Ethics 150	5 Special Ethics 151
3 H. S. & State Man. 130	5 Spec. Methods 165	3 Housing 125
2 Theology 160	3 Educ. Guid. 167	

* Catholic students are required to take 12 hours of Religion.

** Non-Catholic students are required to take Theology 3, and 10 hours of free Electives.

II. Professional Curriculum in General Home Economics

The Professional Curriculum in General Home Economics. The aim of this curriculum is to give the student a general understanding of the broad field of home economics. Courses covered include such subjects as foods and nutrition, clothing, child care, the family, housing and equipment. This curriculum is recommended as preparation for business teaching, and professional positions for which training in home economics is required.

All General College Requirements are met in this curriculum.

Suggested electives for a student specializing in home service and demonstration are: Home Economics 23, 130, 165; Journalism 1; Physics 95; Soc. 7; Speech 40.

First Year

5 Composition 1	5 Composition 2	5 Speech 40
5 Food Preparation 10	5 Food Prep. 11	5 History 2
5 Inorganic Chem. 1	5 Inorganic Chem. 2	5 Cloth. Sel. & Con. 12
		5 Logic 1
	3 Theology 1 or 102 (for Catholics*)	
	2 Theology 3 (for non-Catholics**)	

Second Year

5 Econ. 1	5 Organic Chem. 137	5 Nutrition 13
5 Art Structure 40	5 Economics 2	5 Physics 95
5 Anatomy 50	5 Textile Econ. 14	5 Bact. 101
3 Theology 104		

Third Year

5 Res. Architecture 118	5 Sociology 5 or 7	5 Journalism 1
5 Household Equip. 107	3 Home Furnishing 120	3 Child Nut. 130
5 Child Development 128	2 Food Economics 23	3 Housing 125
	3 Household Adm. 166	5 Mkt. & Adv. CE 115
	4 Theology 107: 110	

Fourth Year

5 Home Mgt. 170	5 General Ethics 150	2 Theology 160
5 Home Mgt. Lab. 172	5 Business Home Ec. 162	5 Exp. Cookery 177
5 General Psychology 1	5 Dem. Tech. 165	5 The Family 160
	5 Special Ethics 151	

* Catholic students are required to take 12 hours of Religion.

** Non-Catholic students are required to take Theology 3, and 10 hours of free Electives.

III. Institution Economics

Institution Economics. The major in institution economics gives preliminary training for hospital dietitians, for managers of school lunchrooms, for workers in restaurants, hotel dining rooms, college dormitories or for employees in other quantity food service work. Graduates of this course are eligible for the American Dietetic Association Administrative courses. The American Dietetic Association requires a post-graduate training of twelve months in an accredited hospital. The student wishing to be a hospital dietitian must, therefore, plan on this as a five-year course.

All General College Requirements are fulfilled in this curriculum. It complies with the Academic Requirements for entrance to approved training courses for student dietitians and membership in the American Dietetic Association.

Undergraduate Major in Institution Economics: H. E. 10, 11, 13, 105, 121, 145, 147, 150, 155, 160, 177, 46 hours.

Related Minor: Ch. 1, 2, 137, 160, Bi. 7. 25 hours.

Undergraduate Minor: H. E. 10, 11, 13, 105, 121. 25 hours.

First Year

5 Composition 1	5 Composition 2	5 Chem. (Qual.) 23
5 Food Prep. 10	5 Food Prep. 11	5 Cloth. Sel. & Con. 12
5 Inorganic Chem. 1	5 Inorganic Chem 2	5 Logic 1
		2 Elective
	3 Theology 1 or 102 (for Catholics*)	
	2 Theology 3 (for non-Catholics**)	

Second Year

5 Psychology 1	5 Organic Chem. 137	5 Bio. Chem. 160
5 Anatomy 50	5 Social Problems 7	5 Econ. 1
Nut. for Nurses 9 (5 cr.)	5 Physiology 51	5 Nutrition 13
3 Theology 104	5 Bacteriology 101	Nut. for Nurses 9 (5 cr.)
	5 Educational Psych. 50	

Third Year

5 Accounting 30	3 Household Adm. 166	3 Child Nut. 130
5 Lit. 64, 65, or 75	5 Accounting 31	5 Physics 95
5 Quant. Cook. 121***	5 Education Prin. 144	3 Inst. Org. & Cont. 145
Diet Therapy (5 cr.) 104	2 Food Economics 23	5 Elective
2 Theology 107		

Fourth Year

5 The Family 160	5 General Ethics 150	5 Spec. Ethics 151
3 Instit. Mkt. 150	2 Readings in Nut. 155	2 Theology 160
3 Inst. Equip. 147	5 Inst. Mgt. Pr. 160	5 Exp. Cook. 177
5 Diet Therapy 105	2 Theology 110	6 Electives

* Catholic students are required to take 12 hours of Religion.

** Non-Catholic students are required to take Theology 3, and 10 hours of free Electives.

*** Affiliation with University of Washington.

IV. Household Equipment and Home Planning

Household Equipment and Home Planning. This four-year course prepares for the following professional positions: Extension specialist, magazine writer, department store consultant, home service specialist with public utilities, testing and research worker and graduate student in home planning or household equipment.

All General College Requirements are met in this curriculum. It complies with the requirements for Home Economics in Business.

Undergraduate Major in Household Equipment and Home Planning: H E. 10, 11, 12, 13, 40, 107, 120, 125, 130, 155, 165, 177. 57 hours.

Related Minor: Ch. 1, 2, 137, Bi. 50, 101, Physics 95. 30 hours.

Undergraduate Minor: H. E. 10, 11, 13, 125, 107, 165.

First Year

5 Inorganic Chem. 1	5 Inorganic Chemistry 2	5 Speech 40
5 Composition 1	5 Composition 2	5 History 2
5 Food Prep. 10	5 Food Prep. 11	5 Cloth. Sel. & Con. 12
		2 Elective
	3 Theology 1 or 102 (for Catholics*)	
	2 Theology 3 (for non-Catholics**)	

Second Year

5 Art Structure 40	5 Logic 1	5 Physics 95
5 Anatomy 50	5 Organic Chem. 137	5 Nutrition 13
5 Textile Econ. 14	3 Theology 104	5 Bact. 101
5 Economics 1	5 Economics 2	

Third Year

5 Psychology 1	2 Food Econ. 23	3 Housing 125
5 Res. Architect 118	3 Home Furn. 120	3 Child Nut. 130
5 Household Equip. 107	3 Household Adm. 166	5 Journalism 1
4 Theology 107; 110	5 Ed. Principles 144	5 Mkt. & Adv. 115

Fourth Year

5 The Family 160	5 Dem. Tech. 165	5 Exper. Cookery 177
5 General Ethics 150	5 Business Home Ec. 155	10 Electives
3 Typewriting	5 Special Ethics 151	
	2 Theology 160	

* Catholic students are required to take 12 hours of Religion.

** Non-Catholic students are required to take Theology 3, and 10 hours of free Electives.

BACHELOR OF SCIENCE
in
MEDICAL TECHNOLOGY

First Year

5 Chemistry 1	5 Chemistry 2	5 Chem. Qual. 23
5 Sociology 7	5 Composition 1	5 Elective
5 Anatomy Bl. 50	5 Physiology 51	5 Composition 2
	3 Theology 1 or 102 (for Catholics*)	
	2 Theology 3 (for non-Catholics**)	

Second Year

5 Zoology Bl. 6	5 Bact. 104	5 Histology 105
5 Bacteriology Bl. 102	5 Chemistry 137	2 Micro. Tech. 106
5 Literature	5 Psychology 1	5 Elective
	3 Theology 104	

Third Year

5 General Ethics Pl. 150	5 Special Ethics Pl. 151	5 Foreign Lang.
5 Chem. Quant. 111	5 Foreign Lang.	5 Biochemistry 160
5 Foreign Lang. 1 or 3	5 Physics 95	5 Elective
	4 Theology 107, 110	

Fourth Year—Hospital 45 Credits

* Catholic students are required to take 10 hours of Religion.

** Non-Catholic students are required to take Theology 3 and 8 hours of free electives.

BACHELOR OF PHILOSOPHY

The Bachelor of Philosophy degree is granted with a major in English, languages, mathematics, music, philosophy.

First Year

5 Composition 1	5 Composition 2	5 History 2
5 Mod. Language 1 or 3	5 Mod. Language 2 or 4	5 Mod. Language 3
5 History 1	5 Soc. 1	5 Soc. 5
	3 Theology 1 or 102 (for Catholics*)	
	2 Theology 3 (for non-Catholics**)	

Second Year

5 Literature	5 Science or Math.	5 Econ. or Politics
5 Science or Math.	5 Logic Pl. 1	5 Psychology 1
5 Econ. or Politics	5 Md. Language 4	5 Elective
	3 Theology 104	

Third Year

3 Phil. of Being 100	3 Phil. of God 101	5 Speech
12 Major, Minor, Elective	12 Major, Minor, Elective	10 Major, Minor, Elective
	4 Theology 107; 110	

Fourth Year

5 General Ethics Pl. 150	5 Special Ethics Pl. 151	15 Major, Minor, Elective
10 Major, Minor, Elective	5 Literature	
	5 Major, Minor, Elective	
	2 Theology 160	

* Catholic students are required to take 12 hours of Religion.

** Non-Catholic students are required to take Theology 3, and 10 hours of free Electives.

BACHELOR OF SCIENCE
in
SECRETARIAL STUDIES

First Year

5 Composition 1	5 Composition 2	5 Shorthand 18
5 Shorthand 16	5 Shorthand 17	3 Typing 22
3 Typing 20	3 Typing 21	2 Elective
5 History 1	5 History 2	
3 Theology 1 or 102 (for Catholics*)		
2 Theology 3 (for non-Catholics**)		

Second Year

5 Accounting 30	5 Accounting 31	5 Accounting 65
5 Economics 1	5 Economics 2	5 Psychology 1
5 Soc. 1	5 Logic Pl. 1	5 Bus. English 115
	3 Theology 104	

Third Year

5 Office Management 101	5 Office Machines 116	5 Money & Banking 60
5 Business Law 10	5 Business Law 11	3 Phil. God Pl. 101
5 Speech 40	3 Phil. Being Pl. 100	5 Soc. 5
	4 Theology 107; 110	3 Elective

Fourth Year

5 General Ethics 150	5 Special Ethics	5 Politics 1
5 Literature	5 Labor Problems	10 Elective
5 Elective	5 Literature	
	2 Theology 160	

* Catholic students are required to take 12 hours of Religion.

** Non-Catholic students are required to take Theology 3, and 10 hours of free Electives.

PRE-PROFESSIONAL PROGRAMS**PRE-DENTAL STUDIES**

Rev. Gerald R. Beezer, S.J., Ph.D., Adviser

The minimum requirements for entrance to a school of dentistry, in accordance with standards of the American Association of Dental Schools and the Council on Dental Education, are the completion of two years, 90 credits of collegiate work in an approved college of arts and sciences. The pre-dental studies include prescribed courses in general chemistry, biology, physics, and English. Students should learn, however, the entrance requirements of the Dental College to which they will seek admission.

The following electives are suggested for the completion of the required pre-dental credits: Comparative anatomy, economics, English, history, mathematics, modern language, philosophy, sociology, speech.

First Year

5 Chemistry 1	5 Chemistry 2	5 Chem. Qual. 23
5 Composition 1	5 Composition	5 Logic Pl. 1
5 Zoology Bl. 1	5 Zoology Bl. 2	5 Literature
	3 Theology 1 or 102 (for Catholics*)	
	2 Theology 3 (for non-Catholics**)	

Second Year

5 Chem. Organic 131	5 Physics 2	5 Physics 3
5 General Ethics Pl. 150	5 Special Ethics Pl. 151	10 Electives
5 Physics 1	5 Chem. Organic 132	
	2 Moral Theology 107, or Elective 2	

* Catholic Students are required to take 5 hours of Religion.

** Non-Catholics are required to take Theology 3, plus 2 hours of Electives.

PRE-LEGAL STUDIES

Rev. Vincent M. Conway, S.J., M.A., Adviser

Students who wish to prepare for the study of law should learn the entrance requirements of the institution to which they shall seek admission. Those who have not determined upon a school of law are advised to follow the pre-legal curriculum outlined below. Additional quarters of work should be planned with the assistance of the adviser.

Pre-Legal

A student who has been in residence in the College of Arts and Sciences for at least one year; who has completed three years of college work, and who has met all the requirements for the Bachelor's degree, may, with the permission of the Committee on Degrees, have forty-eight quarter hours of credit, which he later earns in a recognized school of law, towards the completion of the Bachelor's Degree from Seattle University.

A student wishing to qualify for a combined degree will be subject to the graduation fee, but will be dispensed from the requirement of attendance at the Commencement Exercises.

First Year

5 Composition 1	5 Composition 2	5 Politics
5 Eng. History 171	5 Eng. History 172	5 Eng. History 173
5 Economics 1	5 Economics 2	5 Literature
	3 Theology 1 or 102 (for Catholics*)	
	2 Theology 3 (for non-Catholics**)	

Second Year

5 Logic Pl. 1	5 Psychology 1	5 Politics
5 Literature	5 General Ethics Pl. 150	5 Special Ethics Pl. 151
5 Elective	5 Sociology 7	5 Elective
	2 Moral Theology 107, or Electives (2)	

* Catholic students are required to take 12 hours of Religion.

** Non-Catholic students are required to take Theology 3, and 10 hours of free Electives.

BACHELOR OF SCIENCE—PRE-MEDICAL

Rev. Gerald R. Beezer, S.J., Ph.D., Adviser

The minimum requirements for admission to medical school is usually three years of work in an approved college of Arts and Sciences. The American Medical Association has approved the premedical curriculum offered at Seattle University. The best preparation, however, is a complete four-year course leading to a bachelor's degree which allows the student an opportunity to gain a broad cultural background while fulfilling the essentials required by all medical schools.

Students should decide before the end of their sophomore year whether or not they wish to complete a four year curriculum and earn a Bachelor of Science Degree. The departments of Chemistry and Biology are recommended to such students for their field of major concentration.

First Year

5 Chemistry 1	5 Chemistry 2	5 Chem. Qual. 23
5 Composition 1	5 Composition 2	5 History
5 Algebra 2	5 Trigonometry 3	5 Elective
	3 Theology 1 or 102 (for Catholics*)	
	2 Theology 3 (for non-Catholics**)	

Second Year

5 Chem. Organic 131	5 Chem. Organic 132	5 Chem. Quant. 111
5 Zoology Bl. 1	5 Zoology Bl. 2	5 Speech 40
5 Logic Pl. 1	5 Psychology 1	5 Literature
	3 Theology 104	

Third Year

5 Physics 1	5 Physics 2	5 Physics 3
5 German 11	5 German 12	5 German 13
3 Phil. of Being 100	5 General Ethics Pl. 150	5 Special Ethics Pl. 151
5 Comp. Anat. 127	4 Theology 107; 110	

Fourth Year

5 Embry. Bl. 100	3 Phil. of God 101	5 Elective
5 Elective	5 Sociology 7	5 Economics
3 Elective	7 Elective	2 Elective
	2 Theology 160	

* Catholic students are required to take 12 hours of Religion.

** Non-Catholic students are required to take Theology 3, and 10 hours of free Electives.

PRE-MAJOR

Rev. Vincent M. Conway, S.J., M.A., Adviser

The following students are classified as Pre-Major:

1. The lower division student who has not declared himself a candidate for a specific degree offered by Seattle University.
2. The lower division student who is a candidate for a degree to be taken in some other educational institution after the completion of certain pre-requirements at Seattle University.

Pre-Majors

The Pre-Major student is considered a member of the College of Arts and Sciences. For purposes of classification, even if he should transfer from this college to some other school or college within the University he is not considered to be changing his objective. No Pre-Major is eligible for advanced standing until he has declared his Major. He must declare his Major or complete his transfer before the conclusion of his sixth quarter. Each quarter before registering he must consult with a special adviser to have his program approved, and may take only those subjects which are considered common to several major sequences.

Pre-Major Advisers are:

- Rev. Vincent M. Conway, S.J., M.A., for students interested in Social Sciences.
 Rev. Paul P. Luger, S.J., M.S., for students interested in Natural Sciences.

THE SCHOOL of COMMERCE and FINANCE

Dr. Paul A. Volpe, Ph.D., Dean

The School of Commerce and Finance is designed to offer the student a professional or technical training in private and government enterprise.

The world of commerce and finance is increasingly complex and specialized. College training, for it to be effective, requires more than the traditional passing emphasis upon economics, but a concentration upon the fundamentals of business, combined with specialization in the fields of accounting, finance, labor, foreign trade, etc.

To divorce business and morality is irrational and the social consequences are tragic. The School of Commerce and Finance offers a program of studies intellectually integrated and spiritually animated by Christian thought.

Both students and graduates are provided with the opportunity of professional contacts by the Appointments Office and through the student associations sponsored by the School. The Commerce Club provides a meeting place for all commerce and finance students and outstanding business leaders invited to the bi-weekly meetings. The various fields of specialization are allied with business institutions by way of the Labor-Management Forum, Accounting Association and Foreign Trade Institute.

The School of Commerce and Finance grants the degree, Bachelor of Commercial Science with a major in accounting, finance, foreign trade or labor.

BACHELOR OF COMMERCIAL SCIENCE

First Year

10 Economics 1, 2	5 Business Law 10	10 Composition 1, 2
10 Accounting 30, 31	5 History	5 Business Math. 40
	3 Theology 1 or 102 (for Catholics *)	
	2 Theology 3 (for non-Catholics **)	

Second Year

5 Statistics 50	5 Literature
5 Business Law 11	3 Theology 104
5 Money and Banking 60	5 Major Field
5 Accounting 65	Accounting
5 Politics 1	Intermed. Acct. I, 80
5 Logic 1	Finance—Foreign Trade—Labor
5 Psychology 1	Corporation Finance 75

Third Year

5 International Econ. Relations 100	Accounting
5 Labor Problems 105	Intermed. Accounting II, 129
5 American History	Cost Accounting 130
5 Marketing and Advertising 115	Finance—Foreign Trade
5 Investments and Security Anal. 120	Transportation 122
6 Phil. of Being and God 100, 101	Principles of Foreign Trade 125
4 Theology 107, 110	Labor
10 Major Field	Labor Law and Relations 135
	History of Labor in U.S. 136

Fourth Year

5 Public Finance and Taxation 150	Finance
5 History of Econ. Thought 155	Adv. Money and Banking 165
5 Business Cycles 160	Govt. and Business 170
5 Seminar in Com. and Finance 197	Personnel Adm. 175
5 Ethics 150	Foreign Trade
5 Ethics 151	Govt. and Business 170
5 Literature	Adv. Foreign Trade Exp.-Imp.
2 Theology 160	Pract. I, 195
15 Major Field	Adv. Foreign Trade, Exp.-Imp.
Accounting	Pract. II, 196
Adv. Acct. Tax. 185 or Auditing	Labor
131	Govt. and Business 170
Adv. Accounting C.P.A. Problems	Personnel Adm. 175
I, 186	Collective Bargaining in U.S. and
Adv. Accounting C.P.A. Problems	Abroad 190
II, 187	

* Catholic students are required to take 12 hours of Religion.

** Non-Catholics are required to take Theology 3, and 10 hours of free Electives.

SCHOOL OF EDUCATION

Rev. James B. McGoldrick, S.J., Ph.D., Dean

GENERAL STATEMENT

The School of Education offers both a four year and a five year program of college work. The over-all program is ordained on a triple-track basis: (a) the Degree Program leading to the Bachelor of Arts in Education, (b) the Seattle University Degree-Certificate Program, which is Seattle University's recommended professional teacher-training course, and (c) the State Certificate Program qualify for teaching in the State of Washington. All three Programs may function independently of one another or be integrated with one another depending upon the needs of the student.

DEGREE PROGRAM

The Degree Program is a four year course designed to provide a well-balanced and solid general education plus a concentration in a major field of forty hours and a minor of twenty-five hours. It also requires a strong emphasis in the field of the psychology of human growth and learning as well as an introduction to the history, nature and aims of secondary education. The major field may be in any of the standard liberal arts subjects, the minor is automatically Philosophy for subjects in Groups I and II (cf. page 17), but, for subjects in Group III, the minor must be selected from Group III. Minors other than Philosophy may, however, be selected. As such, the degree is not only appropriate for aspirants to the teaching profession, but for all interested in a deeper understanding of the problems of human growth and learning. The specific requirements are as follows:

	Hrs.
Education	21
Ed. Orient	3
Ed. Psych.	5
Sec. Ed.	3
Mental Hyg.	5
Adoles. Psy.	5
English	20
Composition	10
Literature	10
Language, Modern	20*
Major, Minor, and Electives.....	58**
Philosophy	26
Logic	5
Metaphysics	6
Psychology	5
Ethics	10

Social Science	20***
History	10
Sociology	5
Economics	5
Science or Math.	10
Speech	5
Theology	12†
TOTAL	192

* High School language is acceptable toward requirement.

** Actual hours required for major and minor will depend upon subjects selected hence electives will vary considerably.

*** 23 hrs. are required of the Degree-Certificate students, since Wash. State Hist. is a Certificate requirement.

† Non-Catholic students required to take only 2 hrs. in Theology, i.e., Natural Religion, remaining hrs. are electives.

Besides prescribed courses, students must follow the course-sequence outlined below and maintain a scholarship average of not less than C (2.00). Exceptions to these requirements are made only with the advice and permission of the Dean of the School of Education.

DEGREE-CERTIFICATE PROGRAM

Seattle University's Degree-Certificate Program is a five year program which integrates the Degree Program with the State Certificate Program plus certain additional professional courses judged to be essential to an adequate teacher-training program. In this program the strictly pedagogical courses are reserved to the fifth year. Experience has shown that students not interested in teaching as a career do not do well in courses of pedagogy. These courses are not, therefore, open to the students in the Degree Program.

To those students who complete the integrated Degree-Certificate Program with proper standards of accomplishment a Certificate of Special Approval is issued. To merit this special mark of approval students must maintain an undergraduate scholarship average of not less than 2.5 and a graduate average of not less than 3.00. In awarding this certificate of honor students will also be judged on cadet teaching success and on qualities of personality and character.

The Degree-Certificate Program requirements for the fifth year are as follows:

General Methods of Teaching.....	3
Special Methods of Teaching.....	2
Tests and Measurements.....	3
Philosophy of Education.....	3
Guidance	3
Cadet Teaching	5
Electives, Major, and Minors.....	26*
TOTAL	45

* Since the State requires that the Major and Minors be in subjects regularly taught in secondary schools, it may be that further work must be done in the fifth year to fulfill this requirement.

If the student is in the Certificate Program alone, not in the Degree-Certificate Program, he will not be obliged to take the courses in Guidance and in Tests and Measurements in his fifth year. Philosophy of Education is, however, a requisite for all Seattle University student-teachers.

In general, the following sequence of courses is to be followed. Exceptions for special reasons are to be determined and permitted by the Dean of the School of Education.

Ed. 1: Educ. Orientation precedes all courses in Education. Ed. 50: Educ. Psych. precedes Methods courses, Ed. 175; Adoles. Psych. and Ed. 195; Mental Hygiene Ed. 175 and Ed. 195 precede Ed. 167: Guidance. Ed. 152: Gen. Methods and Ed. 153: Spec. Meths. always precede Ed. 178-9: Cadet Teaching, or are taken along with it.

STATE CERTIFICATE PROGRAM

The State Certificate Program also requires a fifth year of work totaling forty-five hours of work beyond Degree requirements. The State Program may be integrated with any undergraduate degree program. A careful sequence of courses must be planned, however, in order to insure the student properly fulfilling all requirements within the five-year framework. The State of Washington requirements are:

Teaching Major	30
I Teaching Minor*	15
II Teaching Minor**	15
Contemporary Soc. Probs.	15***
Wash. Ht. and Gov.....	3
Education	24
Ed. Psych.	3
Sec. Ed.	3
Gen. Meth.	3
Spec. Meth.	2
Cadet Teach.	4-9
State Manual	0†
Electives	
Total five year program.....	237

* One teaching minor must be related to the major.

** Unrelated minor.

*** May include courses in Sociology, Economics, History since 1914, Wash. Ht., etc.

† No credits allowed for State Manual; a passing grade of C on examination required.

TRANSFER AND TRANSIENT STUDENTS

Transfer students will be admitted by the University for undergraduate work as long as they fulfill the general requirements in course work and in scholarship (2.00). Those approved for fifth year certification work and who wish to be recommended by the University for State certification must maintain a scholarship average of 2.5 and take the following courses under the auspices of the University: Psy. 1: General Psychology, Ed. 194: Philosophy of Education, and Ed. 178-9: Cadet Teaching (or give satisfactory evidence of good teaching ability). Students not fulfilling these requirements will not be recommended by the University for certification, but may apply for certification privately. Exceptions are made only by the Dean of the School of Education.

Transient students, who do not wish to enroll in either degree or certificate programs, but who wish merely to take courses under the auspices of the University, may do so if they have the requisite background for the courses and the required scholarship.

BACHELOR OF ARTS IN EDUCATION

Freshman

Fall Quarter:	Winter Quarter:	Spring Quarter:
5 Comp. 1 (or 15)	5 History 1	5 History 2
5 Mod. Lang. 1 or 3	5 Mod. Lang. 2 or 4	5 Mod. Lang. 3
5 Econ. 3	5 Comp. 2	5 Lit. 64

* 3 Th. Fund. Theol. 102

2 Th. Nat. Relig. for Non-Cath. 3

Sophomore**Fall Quarter:**

5 Lit. 65
5 Science or Math.
5 Mod. Lang. 4

Winter Quarter:

5 Logic Pl. 1
5 Science or Math.
5 Soc. 7
3 Th. Dogma. Theol. 104

Spring Quarter:

5 Psych. Psy. 1
3 Educ. Orient. 1
3 Wash. Hist. 70**
4 Electives

Junior**Fall Quarter:**

5 Educ. Psych. 50
3 Sec. Educ. 145
7 Electives

Winter Quarter:

3 Gen. Metaphys. 100
5 Adoles. Psych. 175
7 Electives
4 or 2 Th. 107, 110, 160

Spring Quarter:

3 Spec. Metaph. 101
5 Speech 40
7 Electives

Senior**Fall Quarter:**

5 Gen. Ethics 150
10 Electives

Winter Quarter:

5 Spec. Ethics 151
10 Electives
4 or 2 Th. 107, 110, 160

Spring Quarter:

5 Mental Hygiene 195
10 Electives

* Theology courses are taken during most convenient quarter.

** Wash. History not required except in Degree-Certificate Program.

Beside the listed required-courses, suggested electives for those wishing to further perfect their understanding of the adolescent, his learning problems and environment are the following: Ed. 140: Vocational Education, Soc. 159: Juvenile Delinquency, and Psy. 178: Child Psychology.

DEGREE-CERTIFICATE PROGRAM FOR FIFTH YEAR**Fall Quarter:**

3 Gen. Methods 152
2 Spec. Methods 153
0 State Manual
10 Electives

Winter Quarter:

3 Tests and Meas. 177
5 Cadet Teaching 178-9
7 Electives

Spring Quarter:

3 Phil. of Ed. 194
3 Guidance 167
9 Electives

1. Renewal of Three-Year Secondary Certificate

The three-year secondary certificate is non-renewable except when a standard certificate cannot be obtained because of lack of experience, in which case the renewal shall be for three years.

2. Conversion of Three-Year Secondary Certificate for Six-Year Standard Secondary Certificate

One who has qualified for a three-year secondary certificate and taught successfully for at least two years upon that certificate may exchange it for the six-year standard secondary certificate without further course work. If it is allowed to lapse, however, 6 additional hours must be earned before one may obtain the six-year certificate.

3. Renewal of Standard Six-Year Certificate

The six-year standard secondary certificates may be renewed with two years of successful teaching experience and nine quarter hours of credit. Three quarter hours of credit may be earned by submitting to the State Superintendent of Public Instruction a creditable report on either travel or independent professional work. It should be noted that travel and independent professional work are acceptable only toward renewal of the six-year certificates.

It is assumed that teachers in service satisfied the specific requirements when the original certificates were issued to them. In order to renew a certificate, therefore, a teacher is free to choose the subjects which in his opinion are most valuable to him.

Secondary certificates are valid in grades 9 to 12 inclusive and in grades 7 and 8 if these grades are a part of an accredited junior high school.

4. Qualifying Certificate

A qualifying certificate which qualifies students to teach in the State of Washington for three years is granted to those students who have completed four years of college work, and received a degree, and who have further completed 12 quarter hours of work beyond their degree plus cadet teaching. This certificate supposes the completion of other requirements during the three-year period.

HIGH SCHOOL PRINCIPAL'S CREDENTIAL

a. Two or more years of successful experience as a high school principal prior to September 1, 1934, or

b. At least two years of successful teaching experience on the secondary level plus twelve quarter hours of professional courses relating to secondary organization, supervision, and administration taken subsequent to at least one year's teaching experience. Not less than six quarter hours of the required number of credits must be from List A below covering at least two of the enumerated fields. The remaining credits may be from either list. Other courses presented toward satisfying the requirement for the high school principal's credential must have been completed within ten years prior to date of application. The principal's credential is obtainable once and is valid for life.

List A

- High School Administration and Supervision
- High School Curriculum
- Guidance
- School Finance

List B

- Educational Research
- Extracurricular Activities
- Health and Physical Education
- Tests and Measurements

A secondary certificate is a prerequisite for a high school principal's credential.

SCHOOL OF ENGINEERING

Rev. Edmund B. McNulty, S.J., M.S. in Eng., Director

Aim

The School of Engineering was inaugurated by Seattle University to afford young men the opportunity of preparing for the engineering profession in a thoroughly Christian system of education. The Faculty strives to develop young men who will have a broad knowledge of Engineering and who will appreciate the work and viewpoint of the profession. The graduate of the School is expected to have a thorough knowledge of the basic sciences and of their application to the various fields of Engineering as well as such specialized training in the field of his choice as will enable him to take his place in Engineering as it is today in America.

CHEMICAL ENGINEERING

First Year

5 Chem. 1	5 Chem. 2	5 Anal. Geom. 9
5 Eng. Algebra 7	5 Trigonometry 3	5 Literature 65
5 Comp. 1	5 Eng. Prob. CE 1	2 Prod. Proc. ME 4
3 Eng. Draw. ME 1	3 Eng. Draw. ME 2	5 Chem. 23

Second Year

5 Physics 97	5 Physics 99	5 Fund. EE 10
5 Calculus 101	5 Calculus 102	5 Calculus 103
5 Chem. 111	5 Mechanics CE 71	4 Mechanics CE 72
3 Theology 1 or 102 (for Catholics*)	3 Theology 104	3 Chem. Tech. CH E 140
2 Theology 3 (for Non-Catholics**)		

Third Year

5 Chem. 131	5 Chem. 132	5 Heat & Power ME 104
5 Fund. EE 11	2 Theology 107	3 Phy. Metallurgy Ch.E. 120
3 Chem. Cal. CH E 141	3 Chem. Cal. 142	5 Psychology 1
4 St. of Mat. CE 103	4 St. of Mat. CE 104	3 Fuels & Lub. CH E 151
	5 Logic 1	3 Philosophy 100

Fourth Year

3 Thermodynamics CH E 186	2 Thermodynamics CH E 187	2 Adv. Calc. CH E 189
3 Unit Operations CHE 149	2 Economics & Design CH E 192	1 Econ. & Design CH E 193
2 Unit Operations Lab. CH E 149	3 Unit Operations CH E 150	1 Seminar CH E 191
5 Phys. Chem. CH 181	2 Unit Operations Lab. CH E 151	5 Phys. Chem. 183
5 Gen. Ethics 150	3 Philosophy 101	2 Theology 110
	5 Physical Chem. 182	5 Special Ethics 151
		2 Thesis

* Catholic students are required to take 10 hours of Religion.

** Non-Catholic students are required to take Theology 3 and 8 hours of free electives.

CIVIL ENGINEERING**First Year**

5 Chem. 1	5 Chem. 2	2 Prod. Proc. ME 4
3 Eng. Draw. ME 1	3 Eng. Draw. ME 2	3 Desc. Geom. ME 3
5 Eng. Algebra 7	5 Trigonometry 3	5 Anal. Geom. 9
5 Comp. 1	5 Eng. Prob. CE 1	5 Literature 65
		3 Plane Surv. CE 3

Second Year

5 Eng. Physics 97	5 Eng. Physics 99	5 Fund EE 10
5 Diff. Cal. 101	5 Int. Cal. 102	5 Calculus 103
3 Surveying CE 4	3 Surveying CE 5	3 Surveying CE 6
5 Logic 1	5 Mechanics CE 71	4 Mechanics CE 72

Third Year

5 Fund. EE 11	5 Fund. EE 12	5 Heat & Power ME 104
3 Geology CE 85	5 Psychology 1	3 Theology 104
3 Philosophy 100	5 Struct. Anal. CE 110	4 Struct. Anal. CE 111
3 Theology 1 or 102 (for Catholics*)	4 St. of Mat. CE 104	3 Soil Mechanics 180
2 Theology 3 (for non-Catholics**)		3 Philosophy 101

Fourth Year

5 Fluid Mechanics CE 106	5 Hydro. & Wat. Pow. CE 163	2 Airport Design CE 190
4 Rein. Conc. CE 161	4 Rein. Conc. CE 162	4 Highway Design CE 154
2 Spec. & Contracts CE 101	4 Structural Design CE 112	5 Special Ethics 151
4 Theology 107	5 General Ethics 150	4 San. Eng. CE 173
4 St. Ind. Struct. CE 181		2 Theology 110
		0 Field Trips CE 195
		2 Thesis

* Catholic students are required to take 10 hours of Religion.

** Non-Catholic students are required to take Theology 3 and 8 hours of free electives.

ELECTRICAL ENGINEERING**First Year**

5 Chem. 1	5 Chem. 2	5 Anal. Geom. 9
5 Algebra 7	5 Trigonometry 3	3 Desc. Geom. ME 3
3 Draw. ME 1	3 Drawing ME 2	3 Surveying CE 3
5 Comp. 1	5 Eng. Prob. CE 1	2 Prod. Proc. ME 4
		5 Literature 65

Second Year

5 Physics 97	5 Physics 99	5 Fund. EE 10
5 Calculus 101	5 Calculus 102	5 Calculus 103
3 Theology 1 or 102* (for Catholics)	3 Theology 104	5 Psychology 1
2 Theology 3** (for non-Catholics)	5 Mechanics 71	4 Mechanics CE 72
5 Logic 1		

Third Year

7 Fund. EE 81	5 Fund. EE 82	5 Fund. EE 83
3 Electronics EE 91	3 Communications EE 96	3 Communications EE 97
3 Philosophy 100	3 Electronics EE 92	3 Electronics CE 93
4 St. of Mat. CE 103	4 St. of Mat. CE 104	5 Heat & Power ME 104
	2 Theology 107	3 Philosophy 101

Fourth Year

3 Communications EE 98	5 † AC Mach. 102	3 Transients EE 161
5 DC Mach. EE 101	5 † Elec. Power EE 171	3 † Elec. Mach. Design EE 180
3 Fluid Mechanics CE 106	5 * Radio EE 151	1 Servomechanisms EE 190
5 Elec. Power EE 170	3 Transients EE 160	5 Special Ethics 151
5 * Radio EE 150	5 General Ethics 150	5 AC Mach. EE 103
3 * Vector Analysis MT 150		5 * High Freq. EE 152
2 Theology 110		2 Thesis
* Communications Majors.	† Electric Power Majors	

* Catholic students are required to take 10 hours of Religion.

** Non-Catholic students are required to take Theology 3 and 8 hours of free electives.

MECHANICAL ENGINEERING**First Year**

5 Chem. 1	5 Chem. 2	5 Anal. Geom. 9
5 Eng. Algebra 7	5 Trigonometry 3	3 Desc. Geom. ME 3
3 Eng. Draw. ME 1	3 Eng. Draw. ME 2	3 Plane Surv. CE 3
5 Comp. 1	5 Eng. Problems CE 1	5 Literature 65
		2 Prod. Processes ME 4

Second Year

5 Eng. Physics 97	5 Eng. Physics 99	5 Psychology 1
5 Diff. Calc. 101	5 Int. Calc. 102	5 Fund. EE 10
5 Logic 1	5 Mechanics CE 71	5 Calculus 103
2 Prod. Proc. ME 5	3 Philosophy 100	4 Mechanics CE 72

Third Year

3 Philosophy 101	3 Theology 104	3 Phys. Metallurgy CH E 120
5 Fund. EE 11	3 Mechanisms ME 61	5 Heat & Power ME 104
3 Eng. Thermo. ME 102	5 Fund. EE 12	2 Theology 107
2 Prod. Proc. ME 6	3 Eng. Thermo. ME 103	3 Fuels & Lub. CH E 151
3 Theology 1 or 102* (for Catholics)	4 St. of Mat. CE 104	3 Prod. Proc. ME 150
2 Theology 3** (for non-Catholics)		3 Mach. Design ME 151
4 St. of Mat. CE 103		

Fourth Year

4 Heat & Vent. ME 181	5 Gen. Ethics 150	5 Heat & Power ME 107
5 Heat & Power ME 105	3 Mach. Design ME 153	2 Spec. & Contracts CE 101
5 Fluid Mechanics CE 106	3 Refrig. ME 161	5 Spec. Ethics 151
3 Mach. Design ME 152	5 Heat Power 106	2 Mach. Design ME 154
3 Ferrous Metals ME 121	3 Non-Ferrous Metals ME 122	2 Theology 110
		2 Thesis

* Catholic students are required to take 10 hours of Religion.

** Non-Catholic students are required to take Theology 3 and 8 hours of free electives.

INDUSTRIAL ENGINEERING**First Year**

5 Chem. 1	5 Chem. 2	5 Anal. Geom. 9
5 En. Algebra 7	5 Trigonometry 3	3 Desc. Geom. ME 3
3 Eng. Drawing ME 1	3 Eng. Drawing ME 2	3 Plane Surv. CE 3
5 Comp. 1	2 Eng. Problems CE 1	5 Literature 65
		2 Prod. Proc. ME 4

Second Year

5 Eng. Physics 97	5 Eng. Physics 99	5 Heat & Power ME 104
5 Diff. Calc. 101	5 Int. Calculus 102	5 Fund. EE 10
5 Logic 1	5 Psychology 1	4 Mechanics CE 72
	4 Mechanics CE 71	3 Philosophy 100
		3 Theology 104
	3 Theology 1 or 102 (for Catholics*)	
	2 Theology 3 (for non-Catholics**)	

Third Year

5 Economics 1	5 Accounting 31	2 Theology 107
5 Accounting 30	5 Economics 2	5 Business Law 10
4 St. of Mat. CE 103	4 St. of Mat. CE 104	3 Philosophy 101
5 Fund. EE 11	5 Fund EE 12	3 Prod. Proc. ME 150
		3 Machine Design 151

Fourth Year

3 Religion 165	5 Money & Banking 60	5 Corp. Finance 75
5 Accounting 65	5 General Ethics 150	5 Special Ethics 151
5 Fluid Mech. CE 106	5 Cost Accounting 130	2 Spec. & Cont. CE 101
5 Eng. Electives	3 Eng. Electives	5 Eng. Electives
	2 Theology 110	

* Catholic students are required to take 10 hours of Religion.

** Non-Catholic students are required to take Theology 3 and 8 hours of free electives.

SCHOOL OF NURSING

Rev Gerald R. Beezer, S.J., Ph.D., Regent

Nazleh E. Vizetelly, M.A., Dean

Statement

The aim of the School of Nursing is not only to prepare students scientifically and professionally for the efficient discharge of their duties as a nurse, but also to assist them through the study of the liberal arts and the learning or religious principles to become truly cultured women of Christian virtue.

Bachelor of Science in Nursing

Recent years have witnessed a steadily increasing demand for nurses with broad educational background and advanced professional preparation. Aware of this need, Seattle University offers a full 4½ year program of nursing education leading to work on the college campus and 12 quarters at the Providence Hospital Division, Providence Hospital, Seattle.

SCHOOLS OF NURSING

Seattle University maintains educational relationships with several hospital schools of nursing. These relationships are through school affiliation or course affiliation.

Under the terms of school affiliation, a student transferring from a school so accredited is accepted by the University for advanced standing, and is granted an equivalent number of collegiate credits toward the professional degree for the entire curriculum of courses taken at the hospital school of nursing. At the present time, the Seattle University School of Nursing, Providence Hospital Division, Seattle, is the only School of Nursing affiliated as a school with the University.

In course affiliation, equivalent credits are not granted toward the professional degree for the entire curriculum of courses taken at the hospital school of nursing. Certain courses, however, conducted by the University faculty members or by other faculty members whose qualifications have been approved by the University are accepted at full value, and transfer students are granted advanced standing to that extent. Hospital Schools of Nursing affiliated in this way are the following:

Columbus Hospital School of Nursing, Seattle.
 Providence Hospital School of Nursing, Seattle (Student Nurses)
 Virginia Mason Hospital School of Nursing, Seattle.
 St. Joseph's Hospital School of Nursing, Tacoma.
 Providence Hospital School of Nursing, Everett.
 Sacred Heart Hospital School of Nursing, Eugene.
 St. Anthony's Hospital School of Nursing, Wenatchee
 St. Elizabeth Hospital School of Nursing, Yakima.
 St. Joseph's Hospital School of Nursing, Bellingham.

BACHELOR OF SCIENCE IN NURSING CAMPUS

Fall Quarter	Winter Quarter	Spring Quarter
5 Chemistry 11	5 Chemistry 12	5 Psych. 1
5 Composition 1	5 Composition 2	5 Sociology 1
5 Elective	5 History 2	5 Lit. 65
3 Theology 1 or 102 (for Catholics *)		
2 Theology 3 (for non-Catholics **)		

Fall Quarter

- 5 Ethics 130
- 5 Anatomy 50
- 5 Sociology 5
- 3 Theology 104

Winter Quarter

- 5 Ethics 131
- 5 Physiology 51
- 5 Psychiatry 170
- 2 Trends in Nursing 143

Spring Quarter

- 5 Physics 95
- 5 Bacteriology 101
- 5 Home Economics 9
- 2 Theology 107

Fall Quarter

- 5 Sociology 160
- 5 Home Economics 104
- 2 Pers. & Com. Hyg. 119
- 5 Element. Nursing 120
- 2 Theology 110

CLINICAL**Winter Quarter**

- 2 Int. Med. Science 122
- 2 Prin. Gen. M. & S. Nurs. 123
- 5 Pharmacy & Therapeutics 61
- 4 Med. Nursing Practice 128

Summer Quarter

- 2 Prin. Medical Spec. 125
- 3 History of Nursing 1
- 4 Diet. Therapy & M. & S. Practice Spec. 129

Winter Quarter

- 2 Int. to P.H. Nurs. 137
- 3 Professional Adj. II 138
- 4 O.R. Nursing Pract. 133

Summer Quarter

- 5 Prin Psych. Nursing 147
- 6 Psych. Nursing Pract. 148

Spring Quarter

- 2 Prin. Gen. M. & S. Nurs. 124
- 3 Prin. Comm. Dis. Nurs. 130
- 4 Surgical Nurs. Practice 132
- 2 Theology 160

Fall Quarter

- 2 Prin. Surg. Spec. 126
- 2 Prin. Ortho. Nurs. 134
- 2 M. & S. Spec. Pract. 127
- 2 Pract. Ortho. Nurs. 131

Spring Quarter

- 4 Prin. O.B. Nursing 141
- 4 O.B. Nursing Pract. 142

Fall Quarter

- 5 Prin. Ped. Nurs. 139
- 6 Ped. Nursing Pract. 140

* Catholic students are required to take 12 hours of Religion.

** Non-Catholic students are required to take Theology 3, and 10 hours of Electives.

Winter Quarter

- 3 Visiting Nurse Service 145
- 3 Tuberculosis Nursing 146

Summer Quarter

- 5 Ward Admin. & Cl. Tchg. 156
- 4 Senior Nurse Practice 157

Spring Quarter

- 3 Prin. P.H. Nursing 167
- 6 Adv. Med. & Surg. Pract. 136
or
- 6 Rural Nursing V.N.A. 144

BACHELOR OF SCIENCE IN NURSING EDUCATION

(Open to graduate registered nurses)

Credits	Credits
Composition * 1..... 5	Ward Adminis. & Clinical Tchg.* 5
Composition 2 5	156 5
Literature 65 5	Princ. & Methods of Teaching * 150 5
History 2 5	Princ. of Guidance in S of N * 191.. 3
Speech 40 5	Princ. & Methods of Supervision *
Sociology * 1 5	152 5
Sociology * 5 5	Tests & Measurements 177..... 3
Sociology 160 5	Ed. Statistics 155..... 5
(or Pop. Trends 163, and Race	Intro. to P.H. Nursing * 137..... 2
and Nationality 166)	Princ. Public Health N. 167..... 3
Logic * 1 5	Field Experience * 154..... 6
Ethics 150 5	Seminar in Teaching * 155..... 3
Ethics 151 5	Religion
Educational Psychology * 50..... 5	Apolgetics 102 3
Psychology 175 5	Redemption 107 2
Psychiatry 170 5	Sacraments 110 2
Philo. of Education * 194..... 3	Moral Guidance 165..... 3
Science	Creation 104 2
Chemistry 7 5	Electives (approved by adviser)...7-12
Physiology 7 5	School of Nursing 40 credits
Bacteriology 101 5	

*Required for Certificate in Supervision (open to graduate registered nurses.)

DEGREE FOR GRADUATE NURSES

(Open to graduate registered nurses)

Seattle University offers a combined academic and advanced professional curriculum leading to the degree of Bachelor of Science in Nursing Education. The R.N. diploma is evaluated and credit is given towards the professional degree of Bachelor of Science in Nursing Education. Courses in the natural and social sciences and nursing education are required to complete the 192 quarter hours necessary for graduation.

PROFESSIONAL REQUIREMENTS FOR ADMISSION

Graduate nurses applying for admission to the advanced professional curriculum must meet the requirements outlined on pages 13-14 in addition to the following:

1. Graduation from a school of nursing of approved standards.
2. Recommendation for teaching, supervision or administration by a Director of a school of nursing by whom the nurse has been employed.
3. Registration as a graduate nurse in one or more states.
4. Sound physical health evidenced by a report showing a complete examination within six months of entrance.

NIGHT SCHOOL

Every quarter, with the exception of the Summer Quarter, Seattle University offers a program of night classes in regular college subjects. These courses may be taken for their informational value, without college credit, or for college credit and applied towards the bachelor's degree. In the latter case, the applicant must have met all the University's entrance requirements and have declared his intention before registering. A variety of subjects is offered each quarter; in six quarters, with proper direction, it is possible to complete an integrated program of studies. The courses are offered once weekly, 7:30 to 9:30 P.M., Monday through Thursday, for a period of ten weeks. Regularly qualified instructors conduct the classes. Following is an incomplete list of the subjects offered, at various times, in the Night School:

Biology

B1 in Survey of Human Anatomy and Physiology; no Laboratory

Commerce and Finance

CF 1n Principles of Economics
 10n Business Law
 11n Business Law (cont. of 10n)
 30n Principles of Accounting
 31n Principles of Accounting (cont)
 40n Business Mathematics
 50n Statistics
 105n Labor Problems
 135n Labor Law and Relations
 175n Personnel Administration

Education

50n Educational Psychology
 155n Educational Statistics
 177n Tests and Measurements
 194n Philosophy of Education

English

En 1n Composition
 2n Composition
 3n Business English
 73n Int. to Modern Lit.
 77n Creative Writing
 164n American Literature (Survey)

History and Political Science

Hs 1n History of West. Civilization
 50n Americas
 176n United States
 Pls 1n Survey of Politics
 2n Comparative Govts.
 50n Social Statistics
 101n History of Political Thought
 111n U.S. Constitutional Hist. & Govt
 124n Hist. Pol. Parties & Elec. in U.S.
 131n Govt. and Business
 132n Govt. and Labor

Home Economics

He 40n Art Structure
 118n Residence Architecture
 140n Home Furnishings

Secretarial Studies

ss 16n Stenographic Shorthand
 17n Stenog. Shorthand (cont.)
 18n Stenog. Shorthand (cont.)

Languages

Fr 1n Elementary French
 2n Elementary French
 111n French Literature (Survey)
 Gr 1n Elementary German
 2n Elementary German
 111n German Literature (Survey)
 Sp 1n Elementary Spanish
 2n Elementary Spanish
 101n Spanish Literature (Survey)

Sociology

Sc 1n Principles
 34n Social Statistics
 143n Sociology of Marriage

Speech

Sph 40n Fundamentals
 154n Radio

Mathematics

Mt 2n College Algebra
 3n College Trigonometry

Philosophy

Pl 1n Logic, Laws of Cor. Reasoning
 2n Modern Systems of Thought
 100n Philosophy of Being
 101n Philosophy of God
 115n Contemporary Philosophies
 150n General Principles of Ethics
 151n Special Principles of Ethics

Psychology

Psy 1n General Psychology
 2n Psychology of Soul
 170n Psychiatry

Theology

Th 1n Fund. Chrstn. Doct.
 3n Found. Nat. Rel.
 102n Fund. Theology
 104n Dogma. Theology
 107n Moral Theology
 110n Christian Perf.
 160n Mass and Sacraments
 165n Old Testament
 117n New Testament
 179n Church History
 181n Church History
 183n Mystical Body
 185n Marriage

SUMMER SESSION

A regular quarter with a complete schedule of courses is offered during the summer months. This program shall be continued in the post-war period to enable war veterans to accelerate their education.

THE GRADUATE SCHOOL

Rev. Albert A. Lemieux, S.J., Ph.D., Dean

Graduate Council: Fr. Lemieux, Chairman; Dr. Hickey, Fr. Conway, Fr. Carmody, Fr. Flajole, Fr. McGoldrick, Fr. Schmid, Fr. Codd.

A program of graduate studies directed toward the Master's Degree in Arts and Sciences was inaugurated at Seattle University in 1901. Graduate work is limited to the Master's Degree and graduate courses are given primarily during the Summer quarter.

Admission

1. Admission to the Graduate School is granted to applicants who have received the Bachelor's Degree from an approved college or professional school, and whose scholarship records and credentials indicate ability to pursue graduate work of high quality.

2. The Graduate Council admits students to graduate work and approves their program of study submitted by their mentor.

3. An undergraduate major is required in the same department from which a candidate selects his graduate major and an undergraduate minor, for his graduate minor.

Requirements for Master's Degree

1. Each candidate shall complete 45 quarter hours of credit at Seattle University beyond that required for a Bachelor's Degree. This work must be of distinctly advanced character but, with the approval of the department and the Dean of the Graduate School, 12 credits may be earned in courses numbered 100 to 199, if the subjects be suitable to the student's program. A maximum of 6 credits may be transferred from another institution if they are earned with a grade of A or B and approved by the Graduate Council.

2. At least 24 quarter hours of credit is to be taken in the major field and not less than 12 hours in the minor field. Upon the recommendation of the major department and approval of the Dean of the Graduate School, all course work may be concentrated in the major field of study.

3. The work done in undergraduate courses for graduate credit must have at least a B grade. Graduate courses, numbered over 200, must have at least a C grade. All the work done towards a Master's Degree must have a B average.

4. Every candidate for a Master's Degree must take a comprehensive examination embracing both the major and minor fields of study. This examination shall be written and/or oral at the judgment of the department and the approval of the Dean of the Graduate School. The examination in the minor field will cover the more significant phases of the particular subjects taken. This matter will be based on a list of readings assigned by the department.

5. (a) The student must complete a thesis on a topic approved by both his major department and the Dean of the Graduate School. For this work 9 quarter hours of credit are granted. The thesis is not necessarily a work of original research but it must, however, demonstrate the candidate's ability to collect facts, interpret them in a critical manner and organize and express them in an original lucid way.

(b) The topic of the thesis is to be approved by the student's mentor and filed in the office of the Dean at the beginning of the last quarter of regular course work.

(c) Two copies of the approved thesis are to be filed in the office of the Dean two weeks before the date of graduation.

(d) An oral examination on the content of the thesis, cognate literature and available source material is held before a board appointed by the Dean of the Graduate School.

6. The course work for the Master's Degree must be completed within five years (6 consecutive Summer Sessions) after the work for the degree has been started. The comprehensive examination, the thesis and the thesis examination must be completed within one year after the course of studies is finished.

7. Each candidate for a degree will give evidence of a reading knowledge of a modern foreign language specified by the director before one half of the required graduate credits for the degree are completed.

8. Students lacking a background in Scholastic Philosophy shall be required to take at least a survey course.

9. Candidates for a degree are required to make application for it on the form supplied by the Graduate School office. This form, filled out, should be returned to the office not later than May 1, preceding the June in which the degree is expected.

10. The Graduate Council alone has the power to recommend a candidate to the Executive Board for a Master's Degree.

11. All candidates for degrees must be present at the Commencement Exercises to receive their diplomas.

SUMMARY

1. 45 credits required for graduation
 - 9 credits granted for the thesis
 - 36 credits granted for course work
 - 24 credits earned in major field
 - 12 credits earned in minor field
2. Reading knowledge in approved modern language.
3. Comprehensive examination in major and minor fields of study.
4. Oral examination on the thesis and its background.

Special Departmental Requirements

EDUCATION—Each candidate should specialize in at least two from the following fields: educational psychology, educational administration and supervision, secondary education, history and philosophy of education and comparative education, curriculum, guidance and extra-curricular activities.

ENGLISH—Candidates for a Master's degree with a major in English are required to take the English senior examination, in addition to the comprehensive examination in graduate course work. It consists of an objective examination in the general field of English, and an essay examination on two special fields in English which will test the candidate's ability to write logically organized and stylistically effective papers.

HISTORY—A special field of interest must be selected at registration or soon thereafter with the advice of the director of the department. The special fields of interest are the following:

1. The Ancient World
2. The Medieval Europe
3. Modern Europe
4. America

No courses outside the field of genetic history will be credited to a degree. The comprehensive examination shall be written and will consist of two parts:

- a. the entire special field of interest
- b. the more significant phases of other fields based on a list of readings assigned by the department.

COURSES OF INSTRUCTION

Lower division courses, numbered 1 to 99, are elementary and background courses. They are open to freshmen and sophomores who have the necessary preparation.

Upper division courses, numbered 100 to 199, are advanced subjects which are not ordinarily open to freshmen and sophomores.

Courses numbered 200 and above are open only to graduate students.

BIOLOGY (B1)

Rev. Leo A. Schmid, S.J., Ph.D., Head

Degree in Biology: 40 hours 1, 2, 50, select 25 hours with the advice of the Head of the Department.

Undergraduate Major: 1, 2, 50, select 25 hours from upper division courses.

Related Minor: Chemistry 1, 2, or 21 and 22, select 15 hours.

Undergraduate Minor: Select 25 hours with the advice of the director.

ANATOMY

50. ANATOMY. General Human. For Nurses, Medical Technicians, Biology and Bac. Majors..... 5 Cr.
 180. SPECIAL DISSECTION NEUROLOGY.....Cr. Arranged

BACTERIOLOGY

101. BACTERIOLOGY. Elementary. For nurses only..... 5 Cr.
 102. BACTERIOLOGY. Fundamental and Sanitary. For Bact., Biol., Medical Tech. Majors..... 5 Cr.
 104. COMMUNICABLE DISEASES. For Bact., Med. Tech. Majors. Prerequisite Bact. 102..... 5 Cr.
 107. IMMUNOLOGY and SEROLOGY. Prerequisite 102, 104..... 5 Cr.
 108. VIRUS DISEASES. Prerequisite, permission..... 2 Cr.
 120, 121, 122. APPLIED MEDIA Room Work.....5, 5, 5 Cr.
 124. SPECIAL ELEMENTARY PROBLEMS.....Cr. Arranged

BOTANY

10. BOTANY, ELEMENTARY. Course deals with the structure and function of plants..... 5 Cr.

HYGIENE

103. PUBLIC HYGIENE 5 Cr.

PHYSIOLOGY

51. PHYSIOLOGY, General human. Prerequisite Anat. 50..... 5 Cr.
 199. SPECIAL ELEMENTARY PROBLEMS.....Cr. Arranged

ZOOLOGY

1. ZOOLOGY, GENERAL. Course deals with invertebrate forms. For pre-medical and pre-dental students..... 5 Cr.
 2. ZOOLOGY, GENERAL. This course continues Zool. 1..... 5 Cr.
 6. SURVEY OF ZOOLOGY. For Med. Tech. and Bact. Majors..... 5 Cr.
 8. PRINCIPLES OF ZOOLOGY. For Record Librarians, Medical Secretaries 5 Cr.

17.	GENETICS. A 2 hr. lecture course. No prerequisite.....	2 Cr.
49.	VERTEBRATE ZOOLOGY. Course deals primarily with cat anatomy. Prerequisite Zool. 2, Chem. 131.....	5 Cr.
99.	EMBRYOLOGY, General. For Bact and Biol. Majors. Prerequisite Zool. 2 or 6, Anat. 50.....	5 Cr.
100.	EMBRYOLOGY, Vertebrate. For Pre-medical and Pre-dental Majors. Prerequisite Zool. 1, 2.....	5 Cr.
105.	HISTOLOGY, General. Study of animal tissues.....	5 Cr.
106.	MICROTECHNIQUE. Preparation of paraffin slides.....	2 Cr.
127.	COMPARATIVE ANATOMY. Prerequisite Zool. 1, 2, 100.....	5 Cr.
128.	COMPARATIVE ANATOMY, Advanced. Prerequisite, permission	5 Cr.

BIOLOGY

Graduate Department

201.	INVERTEBRATE ZOOLOGY. A study of Marine and Fresh Water Invertebrates.....	3 Cr.
206.	PARASITOLOGY	5 Cr.
220.	ENDOCRINOLOGY. A study of the structure function and role in modern medicine of the ductless glands.....	3 Cr.
224.	SPECIAL LABORATORY METHODS.....	2 Cr.
230.	ENTOMOLOGY. The classification, structure and function of insects. Course includes field work and methods of collection and preserving insects.....	4 Cr.
235.	HISTORY OF BIOLOGY.....	2 Cr.
240.	EMBRYOLOGY. A course emphasizing mammalian development	3 Cr.
250.	CYTOLOGY	3 Cr.
260.	GENERAL PHYSIOLOGY	4 Cr.
300.	SPECIAL PROBLEMS SEMINAR.....	Cr. Arranged
310, 311.	RESEARCH	9 Cr.

CHEMISTRY (Ch)

Rev. Gerald R. Beezer, S.J., Ph.D., Head

Degree in Chemistry: 55 hours—1, 2, (or 21 & 22), 23, 109, 110, 131, 132, 133, 181, 182, 183.

Undergraduate Major: 40 hours—1, 2, (or 21 & 22), 23, 109, 110, 131, 132, 180.

Related Minor: Mt. 2, 3; Ph. 1, 2, 3.

Undergraduate Minor: 25 hours—1, 2, (or 21 & 22), 23, 131, 132.

1.	GENERAL INORGANIC CHEMISTRY.....	5 Cr.
2.	GENERAL INORGANIC CHEMISTRY. Prerequisite Chem. 1..	5 Cr.
11.	GENERAL CHEMISTRY. Open to nurses and arts students. High School Chemistry not required.....	5 Cr.
12.	GENERAL CHEMISTRY. Continuation of Chemistry 11.....	5 Cr.
21.	GENERAL INORGANIC CHEMISTRY. Prerequisite, one year high school chemistry.....	5 Cr.
22.	GENERAL INORGANIC CHEMISTRY. Prerequisite Chem. 21	5 Cr.

23. ELEMENTARY QUALITATIVE ANALYSIS.....	5 Cr.
101. ADVANCED QUALITATIVE ANALYSIS. Prerequisite Chem. 23	5 Cr.
109. QUANTITATIVE ANALYSIS. Gravimetric Analysis. Pre- requisite Chemistry 23.....	5 Cr.
110. QUANTITATIVE ANALYSIS. Volumetric Analysis. Pre- requisite Chemistry 109.....	5 Cr.
111. QUANTITATIVE ANALYSIS. Gravimetric and volumetric for students not majoring in Chemistry. Pr. Chem. 23.....	5 Cr.
131. ORGANIC CHEMISTRY. Prerequisite, Chem. 2.....	5 Cr.
132. ORGANIC CHEMISTRY	5 Cr.
133. ORGANIC PREPARATIONS. Pr. Chem. 132.....	5 Cr.
134. ORGANIC QUALITATIVE ANALYSIS. Prerequisite Chem. 23 and 132.....	5 Cr.
137. ORGANIC CHEMISTRY. A survey course. Prerequisite Chem. 2	5 Cr.
160. INTRODUCTION TO PHYSIOLOGICAL CHEMISTRY. Pre- requisite 110, 132.....	5 Cr.
180. PHYSICAL CHEMISTRY. A survey course.....	5 Cr.
181-2-3. PHYSICAL AND THEORETICAL CHEMISTRY. Prerequisite one year college physics, Chem. 110, Math. 102 (5 Cr. per Qtr.)....	15 Cr.
190, 191. HISTORY OF CHEMISTRY.....	2 Cr.

COMMERCE AND FINANCE (CF)

Dr. Paul A. Volpe, Ph.D., Dean

Degree in Commerce and Finance: The required subjects are stated in the program of study for this degree.

Degree in Arts and Sciences:

Undergraduate Major: 50 hours—1, 2, and 40 hours selected with the direction of the advisor.

Related Minor: to be selected from Groups I or II, cf. p. 16.

Undergraduate Minor: 25 hours—1, 2, and 15 hours selected with the direction of the advisor.

First and Second Year

1-2. PRINCIPLES OF ECONOMICS.....	5-5 Cr.
3. SURVEY OF ECONOMICS. Condensation of I and II.....	5 Cr.
10-11. BUSINESS LAW	5-5 Cr.
12. EUROPEAN HISTORY	5 Cr.
30-31. PRINCIPLES OF ACCOUNTING.....	5-5 Cr.
40. BUSINESS MATHEMATICS	5 Cr.
50. STATISTICS. Method and analysis.....	5 Cr.
60. MONEY AND BANKING.....	5 Cr.
65. PRINCIPLES OF ACCOUNTING	5 Cr.
75. CORPORATION FINANCE	5 Cr.
80. INTERMEDIATE ACCOUNTING I.....	5 Cr.

Third Year

100. INTERNATIONAL ECON. RELATIONS.....	5 Cr.
105. LABOR PROBLEMS	5 Cr.
112. AMERICAN HISTORY	5 Cr.
115. MARKETING AND ADVERTISING.....	5 Cr.
120. INVESTMENTS AND SECURITY ANALYSIS.....	5 Cr.
122. PRINCIPLES OF TRANSPORTATION.....	5 Cr.
125. PRINCIPLES OF FOREIGN TRADE.....	5 Cr.
129. INTERMEDIATE ACCOUNTING II.....	5 Cr.
130. COST ACCOUNTING	5 Cr.
131. AUDITING	5 Cr.
135. LABOR LAW AND RELATIONS.....	5 Cr.
136. HISTORY OF LABOR IN THE U.S.....	5 Cr.

Fourth Year

150. PUBLIC FINANCE AND TAXATION.....	5 Cr.
155. HISTORY OF ECONOMIC THOUGHT.....	5 Cr.
165. BUSINESS CYCLES	5 Cr.
165. ADVANCE MONEY CREDIT AND BANKING.....	5 Cr.
170. GOVERNMENT AND BUSINESS.....	5 Cr.
175. PERSONNEL ADMINISTRATION	5 Cr.
185. TAX ACCOUNTING	5 Cr.
186. ADVANCED ACCOUNTING, C.P.A. PROBLEMS I.....	5 Cr.
187. ADVANCED ACCOUNTING, C.P.A. PROBLEMS II.....	5 Cr.
190. COLLECTIVE BARGAINING IN THE U. S. AND ABROAD....	5 Cr.
195. ADVANCED FOREIGN TRADE, Exp.-Imp. Pract. I.....	5 Cr.
196. ADVANCED FOREIGN TRADE, Exp.-Imp. Pract. II.....	5 Cr.
197. SEMINAR IN COMMERCE AND FINANCE.....	5 Cr.

EDUCATION (Ed)

Rev. James B. McGoldrick, S.J., Ph.D., Dean

Undergraduate Major: 40 hours.

Related Minor: Minor of 25 hours each are required.

1. EDUCATION ORIENTATION	3 Cr.
50. EDUCATIONAL PSYCHOLOGY. Principles Psych. 1.....	5 Cr.
130. STATE MANUAL	0 Cr.
140. VOCATIONAL EDUCATION	3 Cr.
145. SECONDARY EDUCATION. Principles of.....	3 Cr.
150. EDUCATIONAL PSYCHOLOGY. Prin. 50 and Psych. 1.....	3 Cr.
152. GENERAL METHODS. Principles 50.....	3 Cr.
153. SPECIAL METHODS. Principles 50 and 152.....	2 Cr.
155. EDUCATIONAL STATISTICS	5 Cr.
157. HIGH SCHOOL ORGANIZATION AND ADMINISTRATION..	3 Cr.
160. HISTORY OF EDUCATION.....	5 Cr.
167. ADMINISTRATION OF GUIDANCE IN THE SECONDARY SCHOOL	3 Cr.

172. SUPERVISION AND IMPROVEMENT OF INSTRUCTION.....	3 Cr.
175. PSYCHOLOGY OF ADOLESCENCE. Principles 50.....	5 Cr.
177. TESTS AND MEASUREMENTS.....	3 Cr.
178—179. CADET TEACHING. Principles 50, 130, 145, 152, 165.....	5 & 3 Cr.
190. CURRICULUM MAKING. Technique of.....	5 Cr.
191. EDUCATIONAL RESEARCH	3 Cr.
192. AUDIO-VISUAL AIDS IN TEACHING & LEARNING.....	3 Cr.
194. PHILOSOPHY OF EDUCATION.....	3 Cr.
195. MENTAL HYGIENE	5 Cr.
196, 197, 198. INDIVIDUAL EDUCATIONAL RESEARCH...Each	2-5 Cr.
199. SOCIAL ASPECTS OF EDUCATION.....	5 Cr.

Graduate Courses

201. METHODS OF EDUCATIONAL RESEARCH. Required of candidates for Master's Degree in Education.....	5 Cr.
205. THE GUIDANCE MOVEMENT AND PROBLEMS OF ADOLESCENCE. An introductory study of the principles, objectives, problems and methods of guidance coupled with a study of the physical, intellectual, emotional, moral and social characteristics of the adolescents, and the educative activities suited to the period of secondary school education. Pr. Psychology 1..5	Cr.
207. ADVANCED PSYCHOLOGY OF EDUCATION. Pr. Psych. 1 and Educational Psych. 50.....	5 Cr.
210. ADVANCED STATISTICAL METHODS. Pr. Education 155 required of candidates for the Master's Degree.....	5 Cr.
211. PHILOSOPHICAL BACKGROUNDS OF EDUCATIONAL METHODS. Pr. Education 152 and 165.....	5 Cr.
212. HIGHER EDUCATION. Development of higher education in America. Present movements in the organization and reorganization of higher education.....	5 Cr.
213. PROGRESSIVE EDUCATION. Its history, development and evaluation	3 Cr.
214. EDUCATION CLASSICS. The more important educational writings of Plato, Locke, Comenius, Rousseau, Pestalozzi, Herbart and others.....	5 Cr.
215. SEMINAR. Problems of Teaching. Research and investigational problems in the teaching of the subjects of the secondary school	3 Cr.
216. SEMINAR IN HISTORY OF EDUCATION. Development of educational theories and practice with special reference to the civilizations in which they served, and to current trends in public schools	5 Cr.
225. COMPARATIVE EDUCATION: SEMINAR. The organization and administration of education in Great Britain, France, Germany, and other countries of Europe and the Orient.....	5 Cr.

230. SEMINAR IN PSYCHOLOGY OF HIGH SCHOOL SUBJECTS 5 Cr.
 240. SEMINAR IN ADMINISTRATION AND SUPERVISION..... 5 Cr.
 245. RECONSTRUCTION IN EDUCATION. Survey of Educational trends in the program of education..... 5 Cr.
 260. SEMINAR IN SECONDARY EDUCATION. Pr. Education 145.. 5 Cr.
 270. PROBLEMS IN MODERN METHODS. Pr. Education 152..... 5 Cr.
 277. ADVANCED TESTS AND MEASUREMENTS, Pr. Ed. 177..... 3 Cr.
 280. PHILOSOPHY OF EDUCATION..... 5 Cr.

ENGINEERING (Eng)

Rev. Edmund B. McNulty, S.J., M.S., Dean

Chemical

21. GENERAL CHEMISTRY. Gas laws, stoichiometry, equilibria, ionization, electrolysis, periodic system..... 5 Cr.
 22. GENERAL CHEMISTRY. Continuation of Ch. 21. A brief study of the important elements and their compounds..... 5 Cr.
 23. QUALITATIVE ANALYSIS. A systematic identification of the important elements and inorganic radicals. Semi-micro methods are employed throughout..... 5 Cr.
 111. QUANTITATIVE ANALYSIS. Gravimetric and volumetric methods. Pr. Chem. 23..... 5 Cr.
 131. ORGANIC CHEMISTRY. Aliphatic compounds through the carbohydrates; a study of their preparation, properties and reactions; the alicyclic compounds..... 5 Cr.
 132. ORGANIC CHEMISTRY. A continuation of Ch. 131. The aromatic and heterocyclic compounds..... 5 Cr.
 140. CHEMICAL TECHNOLOGY. Introduction to chemical engineering and the process industries. Pr. Chem. 22, 3 hours lecture per week 3 Cr.
 141. CH. E. CALCULATIONS. The applications of the fundamental laws of chemistry and physics to general industrial processes. 3 hours lecture per week..... 3 Cr.
 142. CH. E. CALCULATIONS. Continuation of Ch. E. 141. Applications to specific processes. The use of nomography and differential equations. Pr. Ch. E. 141, Math. 103..... 3 Cr.
 149. UNIT OPERATIONS. The theory of fluid flow, heat transfer, evaporation. Pr. Ch. E. 142. 3 hours lecture per week..... 3 Cr.
 149.1 UNIT OPERATIONS LABORATORY. Laboratory course for Ch. E. 149. Coreq. Ch. E. 149, 6 hours lab. per week..... 2 Cr.
 150. UNIT OPERATIONS. Continuation of Ch. E. 149. Air conditioning, humidification, drying, gas absorption, distillation. Pr. Ch. E. 149. 3 hours lecture per week..... 3 Cr.
 150.1 UNIT OPERATIONS LABORATORY. Laboratory course for Ch. E. 150. Coreq. Ch. E. 150. 6 hours lab. per week..... 2 Cr.
 151. FUELS AND LUBRICANTS. Analysis of coal, heating values of solid, liquid and gaseous fuels. 2 hours lecture, and 4 hours of lab. per week..... 3 Cr.

186. THERMODYNAMICS. Fundamental laws of thermodynamics and their application to physical and chemical changes. Pr. Ch. E. 144. 3 hours lecture per week..... 3 Cr.
187. Ch. E. THERMODYNAMICS. Continuation of Ch. E. 186. Free energy changes, equilibria, reaction yields, applications to chemical processes. Pr. Ch. E. 186. 2 hours lecture per week.... 2 Cr.
189. ADVANCED CH. E. CALCULATIONS. Calculation of unit operations and thermodynamics in more complex processes. The annual A. I. Ch. E. student contest problem. 2 hours lecture per week..... 2 Cr.
191. CH. E. SEMINAR. Exercises in the sources and use of chemical engineering literature. Pr. Ch. E. 149..... 1 Cr.
192. CH. E. ECONOMICS AND DESIGN. The coordination of chemical engineering knowledge in the selection, design and layout of a process plant. Pr. Ch. E. 149. 1 hour lecture and 4 hours calculations per week..... 2 Cr.
193. CH. E. ECONOMICS AND DESIGN. Continuation of CH. E. 192. Completion of the chosen project. 4 hours calculations per week 1 Cr.
120. PHYSICAL METALLURGY. A study of the crystal structure and phase diagram of metals as a means of understanding the constitution, micro-structure, workability, heat treatment and physical properties of metals and alloys. 2 hours lecture and 4 hours lab. per week..... 4 Cr.

Civil

1. ENGINEERING PROBLEMS. Training in methods of attacking, analyzing, and solving engineering problems. Deals principally with problems in dynamics, elementary, mechanics, statics and graphics. Ten hours a week..... 5 Cr.
3. PLANE SURVEYING. An introduction to surveying instruments and their use. Theory and methods of chaining, leveling and traversing office computations, and methods of plotting controls. One hour lecture, six hours laboratory a week. Pr. Mt. 8 3 Cr.
4. LAND SURVEYING. U. S. Public Land Surveys, Rural and Urban surveying. Theory and applications of the stadia. One hour lecture and six hours laboratory a week. Pr. CE 3..... 3 Cr.
5. ADVANCED SURVEYING. Topographic surveying and mapping. Triangulation and base-line measurements. Meridian and latitude determination by observation on the sun, and pole star. One hour lecture, six hours laboratory a week. Pr. CE 4 3 Cr.
6. ROUTE SURVEYING. Emphasis is placed on highway surveying. Object and methods of the preliminary, location and construction surveys. Measurement and computation of earthwork and the use of the mass-diagram. simple, compound, reverse and transition curves. One hour lecture, six hours laboratory a week. Pr. CE 5..... 3 Cr.
71. MECHANICS. The principles of statics, kinematics and kinetics including a study of equilibrium of force systems, moment of inertia, linear and angular motions. Three hours lecture a week. Pr. Mt. 101..... 5 Cr.

72. MECHANICS. A continuation of CE 71. Three hours lecture a week Pr. CE 71..... 4 Cr.
85. GEOLOGY. An elementary study of the material structure and internal condition of the earth and of the physical and chemical processes at work upon and within it. Three hours lecture per week..... 3 Cr.
103. STRENGTH OF MATERIALS. Simple tension, compression and shear stress as applied to thin wall cylinders, simple machine parts and riveted joints. A correlation of load, moment, stress and deflection conditions in beams as used for purposes of design. The bases and application of column formula and the determination of stresses in shafting due to simple twist and the combined action of twisting and axial loads. Three hours lecture, 4 hours lab. Pr. CE 71, Mt. 102..... 4 Cr.
104. STRENGTH OF MATERIALS. Continuation of Strength of Materials 103. Three lectures and four labs. per week..... 4 Cr.
106. FLUID MECHANICS. Hydrostatics and hydrokinetics of water; fluid pressure on dams, gates and retaining wall; the flow of water through orifices, tubes, pipes and open channels, turbines and pumps are studied. Four hours lecture and three laboratory a week..... 5 Cr.
110. STRUCTURAL ANALYSIS. Lectures and design laboratory treating statically determinate structures such as roofs and bridges. The work includes a consideration of loads, reactions, moments and stresses. Algebraic and graphic methods are used. Four hours lecture and four hours laboratory a week. Pr. CE 103..... 5 Cr.
111. STRUCTURAL ANALYSIS. A continuation of CE 110. Three hours lecture and four hours laboratory a week. Pr. CE 110..... 4 Cr.
112. STRUCTURAL DESIGN. Analysis and design of a wide variety of types of structure, involving simple tension and compression members, columns, pin and riveted joints, and plate girders. Three hours lecture and four hours laboratory a week 4 Cr.
154. HIGHWAY DESIGN. Design, construction and maintenance of roads and pavements Alignment, grade and drainage of roads. Gravel, stone, concrete, block and sheet gravel types. Four hours lecture and three hours laboratory a week..... 4 Cr.
161. REINFORCED CONCRETE. The design of simple reinforced concrete beams, slabs, columns and footings. Design of concrete mixes together with methods of estimating volumes and cost of reinforced concrete structures. Two hours lecture and six hours laboratory a week. Pr. CE 111..... 5 Cr.
162. REINFORCED CONCRETE. Design of concrete and masonry structures, including foundations, dams, bridge piers, and buildings. Two hours lecture and six hours laboratory a week. Pr. CE 161..... 4 Cr.
163. HYDROLOGY AND WATER POWER. A study of rainfall and stream flow in relation to water power. Characteristics of the various types of hydraulic machines. Three hours lecture a week 3 Cr.

171. **WATER SUPPLY AND SEWERAGE.** Study of water requirements of municipal systems including quantity, quality of source as well as distribution methods. Design of purification and disposal plants and principles of sewer construction. Three hours lecture a week..... 3 Cr.
173. **SANITARY ENGINEERING.** Sewage treatment. Composition and properties dilution, screening and sedimentation, septicization, contact bed trickling filter, activated sludge. Two hours lecture, six hours laboratory a week..... 4 Cr.
180. **SOIL MECHANICS.** A study of soils as a structural material. Physical properties, bearing capacity and current theories of stress-distributions of different types of soils. Soil compaction and behavior under short and long duration loading. Lecture laboratory tests. Two lectures and four hours laboratory per week 3 Cr.
181. **STATICALLY INDETERMINATE STRUCTURES.** Analysis of statically indeterminate structures. Five hours lecture..... 5 Cr.
190. **AIRPORT DESIGN.** Design of landing fields. Three hours lecture a week..... 3 Cr.

Electrical

10. **FUNDAMENTALS OF ELECTRICAL ENGINEERING.** A study of direct current circuits with emphasis on Ohm's Law, Kirchoff's Law, the magnetic circuit and electrical fields. Four hours lecture and four hours laboratory a week..... 5 Cr.
11. **FUNDAMENTALS OF ELECTRICAL ENGINEERING.** A course covering the theory and application of Alternating Current together with its measurement, for Civil, Mechanical and Electrical Engineers. Four hours lecture and four hours laboratory a week. Pr. EE 10..... 5 Cr.
12. **FUNDAMENTALS OF ELECTRICAL ENGINEERING.** A continuation of EE 11. Four hours lecture and four hours laboratory a week. Pr. EE 11..... 5 Cr.
81. **FUNDAMENTALS OF ELECTRICAL ENGINEERING.** A thorough course in singlephase and polyphase alternating current circuits for Electrical Engineering students. Five hours lecture and four hours laboratory a week. Pr. Mt. 102..... 7 Cr.
82. **FUNDAMENTALS OF ELECTRICAL ENGINEERING.** A continuation of EE 81. Four hours lecture and four hours laboratory a week. Pr. EE 81..... 5 Cr.
83. **FUNDAMENTALS OF ELECTRICAL ENGINEERING.** A continuation of EE 82. Four hours lecture and four hours laboratory a week. Pr. EE 82..... 5 Cr.
91. **ELECTRONICS.** A study of the theory and characteristics of vacuum tubes and their use in A.F. and R.F. circuits. Three hours lecture and four hours laboratory a week. Pr. Mt. 102... 3 Cr.
92. **ELECTRONICS.** A continuation of EE 91. Three hours lecture and four hours laboratory a week. Pr. EE 91..... 3 Cr.
93. **ELECTRONICS.** A study of gas-filled and light-sensitive tubes and their circuits. Three hours lecture and four hours laboratory a week. Pr. EE 92 3 Cr.

96. COMMUNICATION. Network theorems, filters, transmission lines and their applications to communication circuits. Two hours lecture and four hours laboratory a week. Pr. EE 81..... 3 Cr.
97. COMMUNICATION. A continuation of EE 96. Two hours lecture and four hours laboratory a week. Pr. EE 96..... 3 Cr.
98. COMMUNICATION. A continuation of EE 97. Two hours lecture and four hours laboratory a week. Pr. EE 97..... 3 Cr.
101. DIRECT CURRENT MACHINERY. A study of the theory of D.C. Machines; commutation, windings, armature E.M.F., voltage and speed regulation of dynamos, three wire generators, balancers, boosters and motor control. Four hours lecture and four hours laboratory a week..... 5 Cr.
102. ALTERNATING CURRENT MACHINES. A study of the principles and characteristics of induction motors, alternators, synchronous motors and synchronous converters. Four hours lecture and four hours laboratory a week..... 5 Cr.
103. ALTERNATING CURRENT MACHINES. A continuation of EE 102. Four hours lecture and four hours laboratory a week..... 5 Cr.
150. RADIO. A thorough study of modulating and demodulating circuits, of oscillation and antennae, and their application to receivers and transmitters. Four hours lecture and four hours laboratory a week..... 5 Cr.
151. RADIO. A continuation of EE 150. Four hours lecture and four hours laboratory a week..... 5 Cr.
152. HIGH FREQUENCIES. Generation and transmission of ultra and super high frequencies. Four hours lecture and four hours laboratory a week..... 5 Cr.
160. TRANSIENTS. A thorough study of electrical transients in electrical circuits with lump and distributed constants. Three hours lecture and four hours laboratory a week..... 3 Cr.
161. TRANSIENTS. A continuation of EE 160. Three hours lecture and four hours laboratory a week..... 3 Cr.
170. ELECTRICAL POWER CIRCUITS. A theory of symmetrical components and application to electrical power systems, and operation under unbalanced conditions. Theory of equivalent circuits with application to component parts of power networks. Four hours lecture and four hours laboratory a week.... 5 Cr.
171. ELECTRIC POWER GENERATION, The technique of electric power generation. Four hours lecture and four hours laboratory a week..... 5 Cr.
180. ELECTRICAL MACHINE DESIGN. Factors governing the design of electrical machinery and the application to a given machine. Six hours laboratory a week..... 5 Cr.
190. SERVOMECHANISMS. The study of the principles of close-cycle automatic control systems with emphasis on transient response. One hour lecture and two hours laboratory a week.. 1 Cr.

Mechanical

1. **ENGINEERING DRAWING.** Lettering, use and care of instruments; orthographic projection, isometric, oblique and perspective projection, technical sketching, screw threads, sectioning, dimensioning and tracing. Nine hours laboratory a week 3 Cr.
2. **ENGINEERING DRAWING.** A continuation of M.E. 1. Nine hours laboratory a week..... 3 Cr.
3. **DESCRIPTIVE GEOMETRY.** The theory of projection and its application to engineering problems. Six hours of lecture and laboratory a week..... 3 Cr.
4. **PRODUCTION PROCESS.** A study of processing of industrial metals, including casting, working, welding, machine and heat treatment. One hour lecture and four hours laboratory a week 2 Cr.
5. **PRODUCTION PROCESSES.** A continuation of M.E. 4. One hour lecture and four hours laboratory a week..... 2 Cr.
6. **PRODUCTION PROCESSES.** A continuation of M.E. 5. One hour lecture and four hours laboratory a week..... 2 Cr.
61. **MECHANISM.** Kinematics of machines; linkage, cams, pulleys and belts, gears and gear teeth. Four hours lecture a week. Pr. CE 72 3 Cr.
102. **ENGINEERING THERMODYNAMICS.** An introductory course in the fundamentals of thermodynamics. Four hours lecture a week. Pr. Mt. 102..... 4 Cr.
103. **ENGINEERING THERMODYNAMICS.** A continuation of M.E. 102. Four hours lecture a week. Pr. ME 102..... 4 Cr.
104. **HEAT AND POWER.** A study of Reciprocating engines and turbines, as well as gasoline and diesel engines. Four hours lecture and four hours laboratory a week..... 5 Cr.
105. **HEAT AND POWER.** A continuation of M.E. 104. Four hours lecture and four hours laboratory a week..... 5 Cr.
106. **HEAT AND POWER.** Control of 105..... 5 Cr.
107. **HEAT AND POWER.** Continuation of 106..... 5 Cr.
121. **FERROUS METALS.** A study of the chemical and physical properties of ferrous metals particularly in relation to processing and product design. Two lectures and one laboratory per week 3 Cr.
122. **NON-FERROUS METALS.** A study of the chemical and physical properties of Non Ferrous metals particularly in relation to processing and product design. Two lectures and one laboratory per week..... 3 Cr.
150. **PRODUCTION PROCESSES.** A study of the processes for casting, machining and fabricating engineering materials particularly in relation to product design. Two lectures and one laboratory per week..... 3 Cr.

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151. MACHINE DESIGN. Determination of stresses and deformations in shafting, hollow cylinders, press fits, gears and springs. The application of the principles to the design, layout and details of specific machines. One hour lecture and six hours laboratory a week. Pr. CE 104..... 3 Cr.
 152. MACHINE DESIGN. A continuation of M.E. 151. One hour lecture and six hours laboratory a week. Pr. M.E. 150..... 3 Cr.
 153. MACHINE DESIGN. A continuation of M.E. 152. One hour lecture and six hours laboratory a week. Pr. M.E. 151..... 3 Cr.
 154. MACHINE DESIGN. Continuation of 153. One hour lecture and six hours laboratory per week..... 3 Cr.
 161. REFRIGERATION. Operation of various types of compressors, evaporators, condensers, and automatic controls used in commercial refrigeration systems. Two hours lecture and four hours laboratory a week..... 3 Cr.
 181. HEAT AND VENTILATION. A study of various systems of heating and ventilating. Three hours lecture a week, and 4 hours lab. 3 Cr.

ENGLISH (En)**Rev. Robert J Carmody, S.J., Candid. Ph.D., Head**

Undergraduate Major: 45 hours—Prerequisite, Composition 1, 2; Required 64, 65, 75, 103, 107, and 20 additional hours in upper division work.

Related Minor: to be selected from Groups I or II or Mt. in Groups III, cf. p. 16.

Undergraduate Minor: 25 hours—Prerequisite, Composition 1, 2; Required 64, 65 and 15 hours in upper division work.

1. COMPOSITION. General review of the mechanics of writing. Training in the correct and effective use of the English language. A thorough study of exposition..... 5 Cr.
2. COMPOSITION. A continuation of Composition 1. A study of and practice in the remaining forms of prose and discourse; description, narration and argumentation..... 5 Cr.
15. COMPOSITION. For students ranking very high in the freshman preliminary test as a substitute for Comp 1 and 2..... 5 Cr.
64. LITERARY BACKGROUNDS. Survey course in English literature from Beowulf to Wordsworth..... 5 Cr.
65. LITERARY BACKGROUNDS. Continuation of Lit. 64, Wordsworth to the present..... 5 Cr.
66. INTRODUCTION TO POETRY. Discussion of poetic theory; emphasis placed on appreciation of poetry; selected readings.... 5 Cr.
73. INTRODUCTION TO MODERN LITERATURE. Survey course in basic readings in modern novel, drama, and essay..... 5 Cr.
75. INTRODUCTION TO LITERATURE. A study of conventions and techniques in the novel, short story, drama and poetry..... 5 Cr.
77. CREATIVE WRITING. An advanced course in the various forms of creative expression in exposition and narration..... 5 Cr.
78. CREATIVE WRITING. A continuation of Creative Writing 77.. 5 Cr.
103. LITERARY CRITICISM. An historical study of the great critics 5 Cr.
104. CONTEMPORARY LITERATURE. A reading course in the modern drama and novel of France and Germany..... 5 Cr.
106. CONTEMPORARY LITERATURE. Modern novel and drama of England and Ireland..... 5 Cr.
107. HISTORY OF THE ENGLISH LANGUAGE. A study of the historical development of modern English in vocabulary, syntax, morphology, pronunciation, spelling and semantics..... 5 Cr.
144. EIGHTEENTH CENTURY LITERATURE. A reading course in the larger works which were not treated in the survey course. Emphasis will fall on the novelists and essayists..... 5 Cr.
151. MIDDLE ENGLISH. Gower, Piers Plowman, and the Canterbury Tales 5 Cr.
- 151b. MIDDLE ENGLISH LITERATURE. Troilus and Criseyde and some of Chaucer's more important minor poems..... 5 Cr.

153. RENAISSANCE LITERATURE. A reading course in Spenser and the English drama between 1550 and 1642..... 5 Cr.
161. AMERICAN LITERATURE. A survey course in the first half of American literature..... 5 Cr.
162. AMERICAN LITERATURE. A continuation of Lit. 161. Second half of survey course..... 5 Cr.
164. AMERICAN LITERATURE. A survey course of the entire field 5 Cr.
166. AMERICAN LITERATURE. A reading course in the Modern American novel 5 Cr.
167. SEVENTEENTH CENTURY LITERATURE. The poetry and prose of Milton..... 5 Cr.
168. SEVENTEENTH CENTURY LITERATURE. Restoration drama and the important longer works of other writers of the period.. 5 Cr.
170. SHAKESPEARE. Comedies and history plays written before 1601 5 Cr.
171. SHAKESPEARE. Tragedies, problem comedies and dramatic romances 5 Cr.
173. VICTORIAN POETRY AND PROSE..... 5 Cr.
174. LATE NINETEENTH CENTURY. Study of the larger important prose works of the major Victorians..... 5 Cr.
175. LATE NINETEENTH CENTURY. Victorian poetry..... 5 Cr.
176. VICTORIAN PERIOD, CATH. LIT. REVIVAL..... 5 Cr.
177. EARLY NINETEENTH CENTURY. A study of the poetry and prose of the romantic movement..... 5 Cr.
190. PHILOSOPHY OF LITERATURE. A study of the philosophical trends in Modern Literature..... 5 Cr.
197. WORLD LITERATURE. A reading course in the outstanding works in world literature from the beginning to modern times which are not contained in the listed courses in English, American or contemporary literature..... 5 Cr.

Graduate Courses

201. INTRODUCTION TO GRADUATE STUDY. Methodology..... 5 Cr.
203. LITERARY CRITICISM 5 Cr.
205. CHAUCER 5 Cr.
206. CHAUCER 5 Cr.
207. RELIGIOUS LYRICS OF MIDDLE ENGLISH AND EARLY RENAISSANCE 5 Cr.
208. ENGLISH DRAMA—Non-Shakespearean—1550-1642 5 Cr.
211. SPENSER AND NON-DRAMATIC LITERATURE OF RENAISSANCE 5 Cr.
217. SHAKESPEARE (1590-1601). Comedies and History plays..... 5 Cr.
218. SHAKESPEARE (1601-1613). Tragedies, Problem Comedies and Romances 5 Cr.
221. MILTON 5 Cr.
222. NON-MILTONIC 17TH CENTURY LITERATURE..... 5 Cr.

224. AMERICAN LITERATURE. Poe, Hawthorne, Melville.....	5 Cr.
225. AMERICAN LITERATURE. Emerson, Thoreau, Whitman.....	5 Cr.
226. AMERICAN LITERATURE. Twain, Howells, Garland, Dick- inson	5 Cr.
230. DEVELOPMENT OF THE ENGLISH LANGUAGE.....	5 Cr.
238. ROMANTIC PERIOD. Wordsworth and Coleridge.....	5 Cr.
239. ROMANTIC PERIOD. Keats, Shelley, Byron.....	5 Cr.
241. VICTORIAN LITERATURE	5 Cr.
242. VICTORIAN LITERATURE	5 Cr.
243. VICTORIAN PERIOD, Cath. Lit Revival.....	5 Cr.
244. EIGHTEENTH CENTURY LITERATURE.....	5 Cr.
245. EIGHTEENTH CENTURY LITERATURE.....	5 Cr.
247. ENGLISH NOVEL	5 Cr.

HISTORY AND POLITICAL SCIENCE

Rev. Jos. P. Donovan, S.J., Ph.D., Head

Students may major in either History or Political Science.

HISTORY (Hs)

Undergraduate Major: 50 hours—1, 2, 50, 51 and 30 hours in upper division work.

Related Minor: to be selected from Groups I or II or Mt. in Group III, cf. p. 16.

Undergraduate Minor: 25 hours—select 15 hours from 1, 2, 50, 51, and 10 hours in upper division work.

1. HISTORY OF WESTERN CIVILIZATION TO THE 16TH CEN- TURY	5 Cr.
2. HISTORY OF WESTERN CIVILIZATION SINCE THE 16TH CENTURY	5 Cr.
50. THE AMERICAS: Colonial Period.....	5 Cr.
51. THE AMERICAS: Republican Period.....	5 Cr.
70. WASHINGTON STATE HISTORY & GOVERNMENT (for Education Majors only. No credit given as a history course)....	3 Cr.
101. ANCIENT WORLD	5 Cr.
102. MEDIEVAL EUROPE	5 Cr.
159. THE RENAISSANCE AND THE REFORMATION.....	5 Cr.
161. EUROPE IN THE 17TH AND 18TH CENTURIES.....	5 Cr.
162. EUROPE, 1789-1830	5 Cr.
163. EUROPE, 1830-1870	5 Cr.
164. EUROPE, 1870-1914	5 Cr.
165. EUROPE SINCE 1914.....	5 Cr.
171. ENGLAND TO THE STUARTS.....	5 Cr.
172. ENGLAND SINCE THE STUARTS.....	5 Cr.
173. ENGLISH CONSTITUTIONAL HISTORY.....	5 Cr.
174. DIPLOMATIC HISTORY OF GREAT BRITAIN.....	5 Cr.
176. UNITED STATES, COLONIAL PERIOD.....	5 Cr.
177. UNITED STATES, 1789-1865.....	5 Cr.
178. UNITED STATES, 1865-1900.....	5 Cr.
179. UNITED STATES SINCE 1900.....	5 Cr.
181. UNITED STATES CONSTITUTIONAL HISTORY.....	5 Cr.

182. DIPLOMATIC HISTORY OF THE UNITED STATES.....	5 Cr.
184. HISTORY OF WESTERN UNITED STATES.....	5 Cr.
188. HISPANIC AMERICA: Colonial Period.....	5 Cr.
189 HISPANIC AMERICA: Republican Period.....	5 Cr.
191. BRITISH NORTH AMERICAN HISTORY.....	5 Cr.
199. HISTORIGRAPHY (not open to Freshmen and Sophomores)....	5 Cr.
200. SEMINAR IN RESEARCH METHODS.....	5 Cr.
259, 269. SEMINARS IN EUROPEAN HISTORY.....	5 Cr.
276, 287. SEMINARS IN UNITED STATES HISTORY.....	5 Cr.

POLITICAL SCIENCE (PIs)

Undergraduate Major: 50 hours—lower division work 10 hours including 1; upper division work 40 hours. Selection of upper division courses should be made under advice.

Related Minor: to be selected from Groups I or II, cf. p. 16.

Undergraduate Minor: 25 hours—1 and at least 10 hours in upper division work.

1. SURVEY OF POLITICS.....	5 Cr.
2. COMPARATIVE GOVERNMENT	5 Cr.
50. SOCIAL STATISTICS	5 Cr.
100. THEORY OF THE STATE: Origin, nature and function.....	5 Cr.
101. HISTORY OF POLITICAL THOUGHT: Political writers.....	5 Cr.
102. HISTORY OF AMERICAN POLITICAL THOUGHT.....	5 Cr.
(Prerequisite P. S. 1 or 100 and P. S. 101 or permission dept.)	
110. ENGLISH CONSTITUTION. The Prerequisite Hist. 171, 172, on permission of department	5 Cr.
111. U. S. CONSTITUTIONAL HISTORY AND GOVERNMENT.....	5 Cr.
121. PUBLIC ADMINISTRATION. (Emphasis on State and Local Government)	5 Cr.
123. PUBLIC PERSONNEL	5 Cr.
124. HISTORY OF POLITICAL PARTIES AND ELECTIONS IN THE U. S.....	5 Cr.
130. PUBLIC FINANCE AND TAXATION.....	5 Cr.
131. GOVERNMENT AND BUSINESS. (Prerequisite C. & F. 105)....	5 Cr.
132. GOVERNMENT AND LABOR. (Prerequisite C. & F. 105).....	5 Cr.
150. HISTORY OF INTERNATIONAL RELATIONS TO 1914.....	5 Cr.
151. HISTORY OF INTERNATIONAL RELATIONS SINCE 1914....	5 Cr.
152. THE CATHOLIC CHURCH AND INTERNATIONAL ORDER..	5 Cr.
153. INTERNATIONAL ORGANIZATIONS	5 Cr.
154. ECONOMIC PROBLEMS OF INTERNATIONAL RELATIONS	5 Cr.
155. GOVERNMENT AND FOREIGN TRADE. (Prerequisite Political Science 154 and C. & F. 125).....	5 Cr.
160. UNITED STATES FOREIGN POLICY.....	5 Cr.
161. BRITISH FOREIGN POLICY.....	5 Cr.
(Prerequisites, History 171, 172, or permission of department.)	

HOME ECONOMICS (HE)**Alice E. Thomas, M.A., Head**

9. **NUTRITION FOR NURSES.** Fall and Spring Quarter. 5 hours—3 hours lecture and 4 hours lab. a week. Elementary nutrition. Principles of and practice in food preparation.
10. **FOOD PREPARATION.** Fall Quarter. 5 hours—3 hours lecture and 4 hours lab. a week. Elementary nutrition. Principles of food preparation and food economics. Experience in food preparation.
11. **FOOD PREPARATION.** Winter Quarter. 5 hours—3 hours lecture and 4 hours lab. a week. Chemical and physical properties of food related to preparation and preservation. Meal Service. Prerequisite Home Economics 10.
12. **CLOTHING SELECTION AND CONSTRUCTION.** Fall, Winter, Spring Quarters 5 hours—3 hours lecture and 4 hours lab. a week. Aims to develop good taste in dress and to give an appreciation in selection of clothing from standpoint of beauty, health and economy.
13. **NUTRITION.** Spring Quarter. 5 hours—3 hours lecture and 4 hours lab. a week. Chemistry of foods and nutrition, emphasizing food nutrients, digestion, and metabolism. Food requirements during normal infancy, childhood, adolescence, adult life and old age. Adequate diets at different economic levels. Prerequisite: Home Economics 11, Chemistry 137, Physics 95.
14. **TEXTILE ECONOMICS.** Winter Quarter. 5 hours—3 hours lecture and 4 hours lab. The quality, suitability and cost of textiles as viewed by the consumer. The relationship of finish and construction to use and price of household and clothing fabrics; testing and identification of fibers and fabrics.
23. **FOOD ECONOMICS.** Winter Quarter. 2 hours—2 hours lecture a week. The production, distribution and economic importance of food: food legislation; brands, and grades. Prerequisite: Home Economics 11.
24. **CLOTHING ECONOMICS.** Spring Quarter. 5 hours—3 hours lecture and 4 hours lab. a week.
40. **ART STRUCTURE.** Fall, Winter and Spring Quarters. 5 hours—3 hours lecture and 4 hours lab. a week. Elements and principles of design and their application to the various fields of art; creative color composition.
104. **DIET THERAPY FOR NURSES.** Fall and Summer Quarters. 5 hours—3 hours lecture and 4 hours lab. a week. The science of modifying the normal diet to meet pathological conditions. Prerequisite: Home Economics 9, Chemistry 137, Physics 95.
105. **DIET THERAPY.** (Home Economics Majors.) Fall Quarter. 5 hours—3 hours lecture and 4 hours lab. a week. Application of dietetic principles to the problems of diet in disease. Prerequisites: Home Economics 13, Chemistry 137, Physics 95.
107. **HOUSEHOLD EQUIPMENT.** Fall Quarter. 5 hours—3 hours lecture and 4 hours lab. a week. Selection, operation and care of household equipment. Units on kitchen planning and home lighting. Prerequisite or concurrent: Physics and Chemistry.

118. RESIDENCE ARCHITECTURE. Fall Quarter. 5 hours—3 hours lecture and 4 hours lab. a week. House planning, interior design, materials and methods of construction.
120. HOME FURNISHINGS. Winter Quarter. 3 hours. Historic and modern furniture. Problems in selecting and arranging furniture and furnishings—pictures, rugs, tapestry, china, glass, silver. Prerequisite: Art Structure 40.
121. QUANTITY COOKERY.* Fall Quarter. 5 hours. Laboratory and institution practice in large quantity food preparation and cost control. Prerequisites: Home Economics 10, 11, 13, Chemistry 2 and Junior Standing.
* Affiliations at University of Washington.
125. HOUSING. Spring Quarter. 3 hours. Housing from the functional standpoint. The structural elements of the house in relation to family needs; building costs; government regulations. Prerequisites: Home Economics 120.
128. CHILD DEVELOPMENT. Fall Quarter. 5 hours. Principles of child development as applied to practical areas of child care and guidance. Observation and directed experiences. Prerequisite: Psychology 1.
130. CHILD NUTRITION AND CARE. Spring Quarter. 3 hours lecture a week. Nutritional requirements of the mother during pregnancy and lactation. Nutrition of the fetus and the child through infancy to adolescence. Feeding problems with children and correction of malnutrition. Prerequisite: Home Economics 13.
145. INSTITUTIONAL ORGANIZATION AND FOOD CONTROL. Spring Quarter. 3 hours lecture a week. Principles and methods of organization, problems of administration, cost of food service, and keeping of records. Systems of food control used in hospitals, college dormitories, high school lunchrooms, and other institutions. Open to home economics students of Junior standing majoring in Institution Economics.
147. INSTITUTIONAL EQUIPMENT. Fall Quarter. 3 hours lecture a week. Materials, construction, specifications, operation and care of equipment for institutions, routing of work. Prerequisite: Home Economics 121.
150. INSTITUTIONAL MARKETING. Fall Quarter. 3 hours lectures and field trips. Principles of wholesale buying for institutions, storage and care of foods. Opportunity is given to visit factories, markets, wholesale houses, and representative types of institutions in Seattle. Prerequisite: Home Economics 121.
155. READINGS IN NUTRITION. Winter Quarter. 2 hours. Reports, discussions, and reviews of recent scientific literature on nutrition. Prerequisite: Home Economics 13.
160. INSTITUTIONAL MANAGEMENT PRACTICE. Winter Quarter. 5 hours. Application of Principles of management to actual practice in the institution. Prerequisites: Home Economics 121 and 145.

165. **DEMONSTRATION TECHNIQUES.** Winter Quarter. 5 hours—3 hours lecture and conference and 4 hours lab. a week. To acquaint the student with the purposes and techniques for conducting successful lectures—demonstrations in various phases of home economics as foods and household appliances. Prerequisites: Home Economics 10, 11, 13, 107.
166. **HOUSEHOLD ADMINISTRATION.** Winter Quarter. 3 hours lecture a week. Household administration of income to increase its efficiency; household budgeting and account keeping; economics of household production. Prerequisite: 6 hours Home Economics, or three hours economics.
168. **HOME ECONOMICS EDUCATION.** Spring Quarter. 3 hours. Opportunity will be given for student teaching in home economics. Prerequisites: Meth. of teaching, Direct. teaching, or concurrent enrollment in these courses.
170. **HOME MANAGEMENT.** Fall Quarter. 5 hours. Problems pertaining to the economical use of time, labor and money in the home. Prerequisite: Concurrent enrollment in Home Economics 172.
172. **HOME MANAGEMENT LABORATORY.** 5 hours. Fall Quarter. Home Managerial experience gained residence in a home through actual experience, in meal planning, food buying, preparation of food, serving of meals, housekeeping, household finance, hospitality, and group relationships. Prerequisites: Home Economics 10, 11, 23, 120, 147.
177. **EXPERIMENTAL COOKERY.** Spring Quarter. 5 hours—3 hours lecture and 4 hours lab. a week. Investigation methods. Application of chemical and physical principles to food preparation. Prerequisites: Chemistry 137, and 11.
180. **DIRECTED TEACHING IN HOME ECONOMICS.** 5 hours. Spring Quarter. Senior standing.

JOURNALISM (Jr.)

Rev. Robert J. Carmody, S.J., Candid. Ph.D., Advisor

Undergraduate Minor: 25 hours—1, 3, 102, 104, 130, 137 or 139, 141.

Recommended: Major in English, History, Political Science, Sociology.

1. **INTRODUCTION.** The background of journalism. Practice writing articles for *The Spectator*, student newspaper..... 3 Cr.
3. **NEWSPAPER REPORTING AND CORRESPONDENCE.** Study of the duties of the newspaper reporter and correspondent. The good news story and how it should be written. Practice in writing for *The Spectator*..... 5 Cr.
102. **EDITING AND COPY READING.** Proof reading, copy editing, condensation and re-writing. Practice work in writing headlines and editing..... 5 Cr.

104. ADVERTISING. Principles, functions, purposes, types of copy, good layout, psychology in advertising..... 5 Cr.
130. CRITICAL WRITING. The critic and the reviewer in the newspaper office 3 Cr.
137. SPORT WRITING. The sport story and the sport page..... 3 Cr.
139. SOCIETY PAGE 2 Cr.
141. NEWSPAPER FEATURES. Method of writing and importance of the feature writer..... 3 Cr.
145. LAW OF THE PRESS. The importance of law and legal procedure in relation to journalism and advertising. Libel, contracts, copyrights, Constitutional guarantees and restrictions on the freedom of the press..... 3 Cr.

LANGUAGES

Rev. Edward S. Flajole, S.J., Candid. Ph.D., Head

The completion of the course numbered 4, or its equivalent, is required of every candidate for a degree whose program of study includes a modern language. Students who have had two years of a modern language in high school are advised to register for course 3, rather than 1, in that same language. The Bachelor of Arts degree requires, in addition to a modern language, 15 hours of Latin exclusive of courses numbered 1 and 2.

FRENCH (Fr.)

Rev. Julius LaMotta, S.J., M.A., Advisor

Undergraduate Minor: 25 hours in addition to French 1 and 2—at least 10 hours in upper division.

- 1, 2, 3. ELEMENTARY. This course is for beginners. No credit will be given for French 1 until 2 has been completed. Course 3 supposes 1 and 2..... 5 Cr.
- 4, 5, 6. READING OF MODERN TEXTS: Exercises in reading of texts and periodical literature; conducted in French..... 5 Cr.
- 104, 105, 106. STUDY OF THE SHORT STORY, novels and essays by modern authors. Conducted in French..... 5 Cr.
111. A SURVEY OF FRENCH LITERATURE. A general survey of literature, with attention to the characteristics of the various periods. Lectures, critical study of representative texts, and reports on collateral reading..... 5 Cr.
- 141, 142, 143. THE FRENCH DRAMA. History of the French drama from its beginning. Lectures in French and assigned reading to be done outside of class. Pr. 6 and 104..... 5 Cr.
- 161, 162, 163. EIGHTEENTH CENTURY LITERATURE..... 5 Cr.
- 171, 172, 173. SEVENTEENTH CENTURY LITERATURE. Lectures in French, assigned reading and reports. The reports may be written in English but the discussions will be mostly in French.. 5 Cr.

GERMAN (Gr)**Rev. Edward S. Flajole, S.J., Candid. Ph.D., Advisor**

Undergraduate Minor: 25 hours in addition to German 1 and 2—at least 10 hours in upper division work.

- 1, 2, 3. **ELEMENTARY GERMAN.** A beginner's course consisting of grammar, pronunciation, exercise in easy themes and conversations, and readings from standard authors..... 5 Cr.
- 4, 5, 6. **INTERMEDIATE GERMAN.** Review of grammar and syntax with reading of selected texts and themes based on the reading.. 5 Cr.
- 11, 12, 13. **ELEMENTARY TECHNICAL GERMAN**.....5, 5, 5 Cr.
105. **GERMAN PROSE WRITERS.** The study of novels or short stories by German prose writers: Brentano, Eichendorff, Hauff, Stifter, Freytag, Heyse..... 5 Cr.
107. **GERMAN LITERATURE.** Reading from William Tell and Mary Stuart 3 Cr.
110. **IDIOMATIC GERMAN.** Class conducted in German conversation 3 Cr.
111. **A SURVEY OF GERMAN LITERATURE.** A general survey of German literature, with attention to the characteristics of the several periods. Lectures, a critical study of representative writings, and reports on collateral reading. Prerequisite: German courses 4-6 or equivalent..... 5 Cr.
114. **READINGS IN TECHNICAL GERMAN.** This course aims to familiarize the students with scientific treatises in their respective fields. The course may be taken by students in the College of Science..... 3 Cr.
- 115, 116, 117. **MED. GERMAN** 2 Cr.
151. **THE GERMAN CLASSICS.** A study of the works of Goethe, Schiller, and other important authors of the classical period. An elective course for juniors and seniors..... 5 Cr.
161. **MODERN GERMAN LITERATURE.** The rapid reading and the interpretation of nineteenth century short stories, novels, and dramas in German. The time allotted to the course is divided about equally among types of literature studied..... 5 Cr.

GREEK (Gr)**Rev. Julius La Motta, S.J., M.A., Advisor**

Undergraduate Minor: 25 hours—at least 10 hours in upper division work.

1. **ELEMENTARY GREEK.** A beginner's course based on White's First Greek book. Reading from Zenophon's Anabasis..... 5 Cr.
50. **NEW TESTAMENT.** Selected readings with a thorough review of grammar and exercises based on the text read..... 5 Cr.
- 75, 76, 77. **HOMER.** Selected portions of the Iliad or Odyssey: Homeric Dialect; prosody; outline of Greek Epic Poetry..... 5 Cr.

- 140, 141. DEMOSTHENES. Two selected orations; history of the development of Greek oratory..... 5 Cr.
150. PLATO. The Apology and one of the Dialogues; a survey of contemporary Greek history..... 5 Cr.
- 160, 161, 162. SOPHOCLES, AESCHYLUS. One complete drama from each, with a study of the development of the Greek Drama..... 5 Cr.
- 180, 181, 182. HERODOTUS. Selections from Book I, VII, VIII, and IX; lectures on Greek historians and historical sources..... 5 Cr.
- 190, 191, 192. EURIPEDES AND ARISTOPHANES. A study of the Medea of Euripides, and the Frogs or the Clouds of Aristophanes..... 5 Cr.
- 194, 195, 196. ARISTOTLE. The Poetics of Aristotle, and his principles of literary criticism. Readings, discussions, and the writing of original essays 5 Cr.

LATIN (Lt.)

Rev. Owen McCusker, S.J., M.A., Advisor

Undergraduate Major: 45 hours—1, 13, 27, 28 and 25 hours in upper division work.
 Related Minor: to be selected from Groups I or II or Mt. in Groups III, cf. p. 16.
 Undergraduate Minor: 25 hours—1, 27, 28, and 10 hours in upper division work.

1. ELEMENTARY LATIN. An intensive study of syntax and selected readings for those beginning the study of Latin..... 5 Cr.
5. CICERO. Orations against Catiline with a review of syntax and practice in Latin prose composition..... 5 Cr.
11. LIVY. Books XXI and XXII are read for a study of Livy's style in contrast with that of the Ciceronian period. Discussion of Livy's reliability as an historian..... 5 Cr.
12. CICERO. Pro Milone is studied with special attention to its rhetorical qualities. Discussion and analysis of Cicero's argument and logic..... 5 Cr.
13. LATIN COMPOSITION. Arnold's Latin Prose Composition..... 5 Cr.
23. HORACE. A general introduction to the works of the poet, with a selected reading of examples from the Sermons, Epistulae, Epodi and Carmina, respectively..... 5 Cr.
27. SURVEY OF LATIN LITERATURE. Andronicus, Naecius, Plautus, Ennius, Cato, Terence, Auctor, Herennium, Caesar, Cicero, Lucretius, Catullus..... 5 Cr.
28. SURVEY OF LATIN LITERATURE. Sallust, Livy, Vitruvius, Vergil, Horace, Elegist, Phaedrus, Seneca, Petronius, Statius, Martial, Tacitus, Pliny, Juvenal, Suetonius, Gaius.
101. ROMAN ORATORY. The excellence of Roman Oratory as illustrated in Cicero's Pro Milone, De Oratore, and Orator; Quintilian's Institutio Oratoria; St. Augustine's De Doctrina Christiana, Liber Quartus..... 5 Cr.
111. LIVY. A reading of Livy's First or Third Decade..... 5 Cr.
112. TACITUS. A special study of Tacitus as an historian and stylist with readings from the Agricola, Germania, and the Dialogue de Oratoribus..... 5 Cr.

113. **ADVANCED LATIN COMPOSITION.** Arnold's Latin Prose Composition or equivalent..... 5 Cr.
118. **ROMAN HISTORIANS.** The historical method and contributions of Roman historians with readings from Nepos, Caesar, Sallust, Livy, Tacitus, and Suetonius..... 5 Cr.
122. **INTRODUCTION TO A STUDY OF THE LATIN FATHERS.** Selections from Tertullian, Cyprian, Lactantius, Minucius, Felix, Jerome, Ambrose, Augustine, Gregory, and Bernard..... 5 Cr.
127. **CICERO.** A study of Cicero as an essayist. De Amicitia and De Senectute 5 Cr.
130. **HORACE.** Selected Odes and Epodes are studied for the lyric qualities of Latin poetry. The influence of Horace on modern poets is discussed..... 5 Cr.
131. **HORACE.** An intensive study of the Odes; meter and versification; sources and inspirations. Special attention to methods of teaching Horace..... 5 Cr.
132. **VERGIL.** A study of pastoral and didactic poetry. Eclogues, Georgics, and other early works of Vergil..... 5 Cr.
137. **ELEGIAIC POETS.** Catullus, Tibullus, Propertius, Ovid..... 5 Cr.
141. **HORACE.** Characteristics of the Roman satire. The importance of the Ars Poetica in the field of literary criticisms..... 5 Cr.
142. **JUVENAL.** Selections from the Satires of Juvenal..... 5 Cr.
161. **ANCIENT ROMAN COMEDY.** Characteristics of Roman Comedy. The Captivi of Plautus and the Phormio or Andria of Terence are read..... 5 Cr.

Graduate

228. **SENECA.** Political and social life under the Caesars. Stoicism and Christianity. Epistulae Morales and selections from the Moral Essays of Seneca..... 5 Cr.
271. **CICERO.** A study of the philosophy of Cicero as revealed in Disputationes Tusculanae and Somnium Scipionis..... 5 Cr.
272. **CICERO.** A study of the ethical principles of Cicero as illustrated in the De Officiis..... 5 Cr.
273. **CICERO.** A discussion of his philosophical writings in their relation to the Greco-Roman philosophical schools. The dialogue, de Finibus Bonorum et Malorum, will be analyzed..... 5 Cr.
281. **POLITICAL AND SOCIAL INSTITUTIONS OF ATHENS AND ROME.** Assigned readings in Latin, Greek, and English translation with lectures and discussion..... 5 Cr.
282. **ROMAN PRIVATE LIFE.** Letters of Cicero, Horace, Pliny, and Seneca, illustrating standards of Roman life. Effects of late Christian culture 5 Cr.
282. **CLASSICAL ARCHAEOLOGY** 5 Cr.
287. **HISTORY OF CLASSICAL LITERATURE.** A study of Greek and Latin literature for comparisons, contrasts and influence... 5 Cr.

SPANISH (Sp)**Rev. Julius La Motta, S.J., M.A., Advisor**

Undergraduate Minor: 25 hours in addition to Spanish 1 and 2—

1, 2; 3. ELEMENTARY SPANISH	5 Cr.
4, 5, 6. INTERMEDIATE SPANISH	5 Cr.
7. ADVANCED SPANISH	5 Cr.
8. ADVANCED SPANISH	5 Cr.
9. CONVERSATIONAL COURSE	5 Cr.
101. SURVEY COURSE OF SPANISH CLASSICS.....	5 Cr.
110. NOVEL OF THE GOLDEN AGE.....	3 Cr.
120. SPANISH NOVEL OF THE 19TH CENTURY.....	3 Cr.
130. THE EPIC, LYRIC, AND MYSTIC POETRY OF SPAIN.....	3 Cr.
140. DRAMA OF THE GOLDEN AGE.....	2 Cr.
150. MODERN SPANISH DRAMA.....	3 Cr.
160. COMMERCIAL SPANISH	3 Cr.
170. SPANISH-AMERICAN SURVEY	3 Cr.

MATHEMATICS (Mt)**Rev. Edmund B. McNulty, S.J., MS., Head**

Undergraduate Major: 40 hours—2, 3, 6, 101, 102, 103, 114, 115.

Related Minor: to be selected from Groups I, II, or III, cf. p. 16.

Undergraduate Minor: 25 hours—2, 3, 6, 101, 102.

1. SOLID GEOMETRY. Prerequisite, Plane Geometry.....	5 Cr.
2. COLLEGE ALGEBRA. Prerequisite, 1½ years High School Algebra	5 Cr.
3. PLANE TRIGONOMETRY	5 Cr.
4. SPHERICAL TRIGONOMETRY	5 Cr.
5. MATHEMATICS OF FINANCE.....	5 Cr.
6. PLANE ANALYTIC GEOMETRY.....	5 Cr.
7. ENGINEERING ALGEBRA. Prerequisite, High School Algebra	5 Cr.
9, 10. INTRODUCTION TO COLLEGE MATHEMATICS.....	5 Cr.
101. DIFFERENTIAL CALCULUS. Prerequisite, Plane Analytic Geometry	5 Cr.
102. INTEGRAL CALCULUS. Prerequisite, Differential Calculus... ..	5 Cr.
103. INTEGRAL CALCULUS. Prerequisites, Integral Calculus 102..	5 Cr.
107. THEORY OF EQUATIONS.....	5 Cr.
110. SOLID ANALYTIC GEOMETRY. Prerequisite, Plane Analytic Geometry	5 Cr.
114, 115. DIFFERENTIAL EQUATIONS	5 Cr.
116. ADVANCED CALCULUS	5 Cr.
122. THEORY OF DETERMINANTS.....	5 Cr.
175. INTRODUCTION TO MATHEMATICAL THOUGHT.....	1 Cr.

MUSIC**Rev. Daniel J. Reidy, S.J., Ph.D., Faculty Director****Walter Aklin, Head**

(Request Music Bulletin)

Courses are offered in the theory of music and the practice, both vocal and instrumental, either toward a degree in music or as cultural electives in a regular academic degree. It is recommended that every student take at least one course in music appreciation.

COURSES

The various branches of vocal and instrumental music are designated by capital letters immediately following the course number.

A-Piano; B-Violin; C-Voice; D-Violoncello; E-Organ; F-Wind Instruments.

- 1, 2, 3. ELEMENTARY VOCAL OR INSTRUMENTAL MUSIC. 2 or 3 credits.
4. INTRODUCTORY SIGHT-SINGING. 3 credits.
- 6, 7, 8. ELEMENTARY VOCAL OR INSTRUMENTAL MUSIC. 2 or 3 credits.
- 10, 11, 12. COLLEGE CHORUS. 1 credit.
15. MUSIC FUNDAMENTALS. Course in ear training, transposition, tonalities, etc. 3 credits.
16. SOLFEGGIO. Sight reading and music dictation. 2 credits.
- 31, 32, 35. COLLEGE ORCHESTRA. 1 credit.
- 40, 42. ELEMENTARY ORCHESTRAL INSTRUMENTS. 3 credits.
- 43, 44, 45. COLLEGE CHORUS. 1 credit.
46. ELEMENTARY HARMONY. This course includes the study of primary harmonies. 5 credits.
- 48, 49, 50. VOCAL OR INSTRUMENTAL MUSIC. First year for voice or instrumental majors. 2 or 3 credits.
52. KEYBOARD HARMONY. Transposition, modulation, and harmonization at the keyboard of figured and unfigured bases and melodies. 3 credits.
53. INTERMEDIATE HARMONY. This course covers dominant seventh and ninth chords and secondary harmonies. 5 credits.
54. ADVANCED SIGHT-SEEING. 3 credits.
- 55, 56, 57. COLLEGE ORCHESTRA. 1 credit.
- 65, 66, 67. CHORAL ENSEMBLE. 1 credit.
- 68, 69, 70. VOCAL AND INSTRUMENTAL MUSIC. Second year for voice or instrumental majors. 1 credit.
72. INTRODUCTION TO MUSIC LITERATURE AND HISTORY. Study of style and historical background of standard and concert repertoire, with emphasis on current programs. Covers pre-classical and classical periods. (Palestrina, Bach, Mozart, Beethoven, etc.) 3 credits.
73. MUSIC LITERATURE AND HISTORY Romantic period. (Schumann, Chopin, Liszt, Tchaikowsky, etc.) 3 credits.
74. MUSIC LITERATURE AND HISTORY, Impressionism and Modernism. (Debussy, Ravel, Richard Strauss, etc.) 3 credits.
75. STUDY OF THE GREAT OPERAS. Classical period. (Gluck, Mozart, Beethoven, etc.) 2 credits.

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76. STUDY OF THE GREAT OPERAS. Romantic period. (Music dramas by Wagner and operas by Verdi, Bizet, Puccini, etc.) 2 credits.
77. STUDY OF THE GREAT OPERAS. Impressionistic and modernistic. (Debussy, Richard Strauss, Gershwin, etc.) 2 credits.
- 82, 83, 84. CHORAL ENSEMBLE. 1 credit.
- 85, 86, 87. COLLEGE ORCHESTRA. 1 credit.
101. ADVANCED HARMONY. Covers chromatic harmonies, modulations, suspensions, organ-point, etc. 5 credits.
109. COUNTERPOINT. Regulation of two or more concurrent melodies. 5 credits.
112. MUSICAL FORMS. Analysis and exercises in composition. 5 credits.
113. ELEMENTARY SCHOOL MUSIC. Application of educational principles to the teaching of music in the first six grades. 5 credits.
116. JUNIOR HIGH SCHOOL MUSIC..... 3 Cr.
117. ELEMENTARY COMPOSITION AND ARRANGING. Original work and arrangements for combination of voices or instruments. 5 credits.
- 118, 119, 120. VOCAL OR INSTRUMENTAL MUSIC. Third year for voice or instrumental majors. 2 or 3 credits.
127. CHORAL LITERATURE. A Capella singing with emphasis upon skill in part-singing, style and interpretation. 3 credits.
128. CHAMBER MUSIC. Study of musical literature for string trios, quartets, and quintets. 3 credits.
- 130, 131, 132. COLLEGE-ORCHESTRA. 1 credit.
136. TECHNIQUE OF CONDUCTING. Principles of conducting with practical experience in directing groups. 3 credits.
- 137, 138, 139. GREGORIAN CHANT. Historical survey of plain chant from the earliest period to the present day. 3 or 5 credits.
143. ORCHESTRATION. Principles of orchestral composition. 5 credits.
146. STUDY OF THE GREAT CONCERTOS. Including piano, violin, 'cello, and clarinet. 3 credits.
147. SONG AND CHORAL LITERATURE. Appreciation and history. 2 credits.
148. TONE POEMS OF BERLIOZ, LISZT, STRAUSS. 3 credits.
149. LATE MUSIC DRAMAS OF WAGNER. 2 credits.
150. ANALYSIS OF COMPOSITION AND SCORE READING. 2 credits.
151. THE SYMPHONY AND ITS COMPOSERS. Study and analysis of symphonies. History and comparison of composer's styles, instrumentation, and orchestration. 3 credits.
153. MODERN ORCHESTRAL LITERATURE. 3 credits.
154. SENIOR HIGH SCHOOL MUSIC. 2 credits.
157. FREE COMPOSITION. Writing in the smaller forms for voice and instruments. 5 credits.
163. ADVANCED COUNTERPOINT. The choral prelude, invention and fugue. Analysis and composition. 5 credits.
- 168, 169, 170. VOCAL OR INSTRUMENTAL MUSIC. Fourth year for voice or instrumental majors. 2 or 3 credits.

175. PIANO PEDAGOGY. Methods and materials of piano pedagogy, and practice teaching. 3 or 5 credits.
176. VIOLIN METHODS. Methods and materials of violin pedagogy, practice teaching. 3 or 5 credits.
180. ORCHESTRAL CONDUCTING. 3 credits.
197. ADVANCED COMPOSITION. Original writing in the larger forms. 5 credits.

COURSES FOR GRADUATES

- 201, 202, 203. GRADUATE COMPOSITION. Credits to be arranged.
- 204, 205, 206. RESEARCH. Problems in music education or musicology. Credits to be arranged.
207. THESIS. Original contribution from student's field of research. Credits to be arranged.
- 218, 219, 220. GRADUATE VOCAL OR INSTRUMENTAL MUSIC. Credits to be arranged.

NURSING (N)

Rev. Gerald R. Beezer, S.J., Ph.D., Regent

Nazleh E. Vizetelly, M.A., Dean

1. HISTORY OF NURSING.....	3 Cr.
51. ELEMENTARY PHARMACY. Drugs and Solutions.....	2 Cr.
61. PHARMACOLOGY AND THERAPEUTICS.....	3 Cr.
120. PRINCIPLES OF ELEMENTARY NURSING I.....	3 Cr.
121. PRINCIPLES OF ELEMENTARY NURSING II.....	2 Cr.
122. INTRODUCTION TO MEDICAL SCIENCE.....	3 Cr.
124. PRINCIPLES OF GENERAL MEDICAL AND SURGICAL NURSING	5 Cr.
125. PRINCIPLES OF MEDICAL SPECIALTIES.....	5 Cr.
126. PRINCIPLES OF SURGICAL SPECIALTIES.....	5 Cr.
128. MEDICAL NURSING PRACTICE.....	3 Cr.
129. PRACTICE IN DIET THERAPY AND CENTRAL DRESSING ROOM	6 Cr.
130. COMMUNICABLE DISEASE NURSING.....	3 Cr.
132. SURGICAL NURSING PRACTICE.....	3 Cr.
133. PRACTICE IN THE OPERATING ROOM AND IN THE OUT-PATIENT DEPARTMENT	6 Cr.
136. ADVANCED MEDICAL AND SURGICAL PRACTICE.....	6 Cr.
137. INTRODUCTION TO PUBLIC HEALTH.....	2 Cr.
138. PROFESSIONAL ADJUSTMENTS II.....	3 Cr.
139. PRINCIPLES OF PEDIATRICS AND PEDIATRICS NURSING.....	5 Cr.
140. PEDIATRIC NURSING PRACTICE.....	6 Cr.
141. PRINCIPLES OF OBSTETRICS AND OBSTETRICAL NURSING	5 Cr.
142. OBSTETRICAL NURSING PRACTICE.....	6 Cr.
145. VISITING NURSE PRACTICE.....	5 Cr.
146. TUBERCULOSIS NURSING PRACTICE.....	3 Cr.

147. PRINCIPLES OF PSYCHIATRY AND PSYCHIATRIC NURSING	5 Cr.
148. PSYCHIATRIC NURSING PRACTICE.....	6 Cr.
156. PRINCIPLES OF WARD ADMINISTRATION AND CLINICAL TEACHING	5 Cr.
157. SENIOR PRACTICE	6 Cr.

NURSING EDUCATION (NE)

156. WARD ADMINISTRATION AND CLINICAL TEACHING.....	5 Cr.
150. PRINC. & METHODS OF TEACHING IN NURSING EDUCATION	5 Cr.
191. PRINCIPLES OF GUIDANCE IN SCHOOLS OF NURSING....	3 Cr.
152. PRINCIPLES AND METHODS OF SUPERVISION.....	5 Cr.
137. INTRODUCTION TO PUBLIC HEALTH NURSING.....	2 Cr.
167. PRINCIPLES OF PUBLIC HEALTH NURSING.....	3 Cr.
151A. ORGANIZATION AND ADMINISTRATION IN SCHOOLS OF NURSING, Part I.....	3 Cr.
151B. ORGANIZATION AND ADMIN. IN SCHOOLS OF NURSING, Part II	3 Cr.
192. CURRICULUM CONSTRUCTION IN SCHOOLS OF NURSING	5 Cr.

PHYSICAL EDUCATION (PE)

1. BADMINTON	1 Cr.
2. BASKETBALL	1 Cr.
2. BOWLING	1 Cr.
4. FOOTBALL (Touch)	1 Cr.
5. HARDBALL	1 Cr.
6. HIKING	1 Cr.
7. RIDING	1 Cr.
8. SWIMMING	1 Cr.
9. VOLLEYBALL	1 Cr.

The Men's Division of the Department of Athletics and Physical Education offers programs leading to the Bachelor of Science degree, with a minor physical education.

These programs, designed primarily to prepare men students for teaching in physical education, health education, recreation, and the academic field, and for coaching athletic teams, meet the state certification requirements in the state of Washington and other areas.

(Courses for Men)

50. PHYSICAL EDUCATION.

Two hours a week each term for four years. Fall and spring: outdoor athletics and games. Winter term: gymnastics and games. Throughout the year: measurements and individual programs to meet special needs.

60. INTRODUCTION AND HISTORY OF PHYSICAL EDUCATION. One term. Brief historic survey of physical education from ancient to modern times. Study and interpretation of the aims and objectives of physical education in relation to general education 2 Cr.
61. GROUP GAMES OF LOW CIVILIZATION. One term. Study of graded games; practice in conducting games of low and high organization 2 Cr.
62. RECREATIONAL DUAL AND SINGLE SPORTS. Instruction in such activities as tennis, golf, handball, boxing, wrestling, badminton, etc. 2 Cr.
121. COACHING MINOR TEAM SPORTS. Instruction in such team sports as soccer, speedball, volleyball, softball, touch football, etc. 1 Cr.
122. THEORY AND PRACTICE OF COACHING MAJOR SPORTS. Theory of and practice in the coaching of the major sports of football, basketball, baseball, track and field..... 2 Cr.
123. LEADERSHIP IN COMMUNITY RECREATION. Study of recreational programs, with special consideration of the contributions of physical education to community recreation for organizing and administering recreational programs..... 2 Cr.
124. PHYSICAL INSPECTION, SAFETY, AND FIRST AID. One term. Nature and scope of physical inspection for the non-medically trained teacher; safety education, particularly related to physical education activities; standard first aid instruction leading to certification; care of athletic injuries..... 3 Cr.

(Courses of Men and Women)

45. SURVEY OF GROUP AND INDIVIDUAL GAMES AND SPORTS. One term. A survey course to provide a fundamental knowledge of a variety of physical education group and individual activities. Team organization, safety precautions, rules, officiating, and handling of equipment will be covered 3 Cr.

PHYSICS (Ph)

Rev. Paul Luger, S.J., M.S., Head

Undergraduates Major: 65 hours—7, 8, 9, 100, 101, 105, 106, 120, 150, 160, 161, 180, 181, 198, 199.

Minor—Mathematics: 40 hours—2, 3, 6, 101, 102, 103, 114, 115.

Undergraduate Minor: 1, 2, 3, and 10 hours upper division work.

Physics 1 is prerequisite for Physics 2 and 3.

Physics 2 need not precede Physics 3.

- 1, 2, 3. GENERAL PHYSICS. Required of all pre-medics. Three hours lecture, one hour quiz, one four-hour laboratory period each week. Prerequisite, College algebra and trigonometry.
1. MECHANICS 5 Cr.
2. ELECTRICITY AND MAGNETISM SOUND..... 5 Cr.
3. HEAT, LIGHT, AND SURVEY OF MODERN PHYSICS..... 5 Cr.

- 7, 8, 9. GENERAL PHYSICS. Required of all Physics majors. Three hours lecture, one hour quiz, one four-hour laboratory period each week.
7. MECHANICS 5 Cr.
8. ELECTRICITY AND MAGNETISM, SOUND..... 5 Cr.
9. HEAT, LIGHT, RADIATION AND ATOMIC STRUCTURE..... 5 Cr.
10. SURVEY OF PHYSICS..... 5 Cr.
54. ELEMENTARY PHOTOGRAPHY. Prerequisite, elementary physics or chemistry..... 5 Cr.
95. HOUSEHOLD PHYSICS. Adapted to students in Home Economics and nursing 5 Cr.
- 97, 98, 99. ENGINEERING PHYSICS.
97. MECHANICS AND HEAT..... 5 Cr.
98. ELECTRICITY AND MAGNETISM..... 5 Cr.
99. SOUND, LIGHT, RADIATION AND ATOMIC STRUCTURE... 5 Cr.
- 100, 101. INTRODUCTION OF MODERN PHYSICS. A study of the fundamental "particles" of physics; presentation of the experimental evidence for the existence of these "particles," theories and physical concepts derived from these studies.
100. Gaseous Ions, ionization; the electron, charge and mass; electrical discharges in gases; positive rays, isotopes; the photoelectric effect, Compton effect, photons—their absorption and radiation.
101. Natural and artificial radioactivity; the positron; the neutron; the nucleus and artificial disintegration, the mesotron; cosmic rays; De Broglie's hypothesis; wave of theory of matter..... 5 Cr.
- 105, 106. ELECTRICITY AND MAGNETISM. (Intermediate Physics.) Laboratory in electrical measurements once a week..... 5 Cr.
120. ANALYTICAL MECHANICS. (Intermediate Physics)..... 5 Cr.
130. RADIOACTIVITY. An elective for physics Majors, or those who have had Physics 2 and 3 or 99..... 3 Cr.
140. COSMIC RAYS. An elective for physics Majors (or those with physics 3, 9 or 99). Offered during summer 1949..... 5 Cr.
150. THERODYNAMICS AND KINETIC THEORY. (Intermediate Physics) 5 Cr.
- 160, 161. OPTICS. (Intermediate Physics). One laboratory period per week 5 Cr.
160. GEOMETRICAL OPTICS. Fundamental principles applied to the optics of mirrors, prisms, and lenses. Optical instruments. 3 Cr.
161. PHYSICAL OPTICS. Fundamentals of interference, diffraction, polarization and their applications; interferometry..... 3 Cr.
170. EXPERIMENTAL ATOMIC PHYSICS. A laboratory course in atomic physics 2 Cr.
175. SPECIAL QUESTIONS OF MODERN PHYSICS with Philosophical implications 2 Cr.

180, 181. INTRODUCTION TO MATHEMATICAL PHYSICS.

180. The algebra of vectors, vector equations of surfaces in space, direct and skew products of vectors, linear vector functions, formal properties of dyadics, rotations and strains, affine transformations, contractions and elongations, quadric surfaces, reduction of dyadics to canonical forms, the Hamilton-Cayley equation 5 Cr.

181. The calculus of vectors; differentiation of vectors and dyadics with respect to scalars, functions of time, position, geometry of the twisted curve, applications to kinematics, gradient, divergence, and curl; curvature of surfaces, line integrals, theorems of Gauss and Green, the Newtonian potential function, introduction of tensors..... 5 Cr.

198, 199. INTRODUCTION TO THEORETICAL PHYSICS.

198. MECHANICS. Mechanics of particles, planetary motion, rigid bodies, vibrating particles, vibrating strings, and membranes, elasticity and hydrodynamics. Use of Lagrange's equations and generalized coordinates 5 Cr.

199. ELECTROMAGNETIC THEORY. Electrostatics and magnetostatics. Maxwell's equations, the potentials, Poynting's theorem. Plane waves in empty space, reflection and refraction. Wave guides and resonant cavities. Spherical waves, field of oscillating dipole. Radiation from antennas and antenna arrays, and from atoms and molecules. Interference, diffraction, scattering. Electron theory of dielectric constant, permeability, and polarization 5 Cr.

200. QUANTUM THEORY. Wave mechanics, classical and quantum statistics, structure of atoms and molecules, and the properties of matter 5 Cr.

PHILOSOPHY (PI)

Rev. Henry H. Kohls, S.J., Ph.D., Head

Undergraduate Major: 41 hours—1, 100, Psy. 1, 101, 106, 150, 151, 180, 182, 183.

Unrelated Minor: to be selected from Groups I, II, III, cf. p. 16.

Undergraduate Minor: 26 hours—1, 100, Psy. 1, 101, 150, 151.

1. LOGIC. Acts of the mind—laws of correct reasoning—the critical problems—criteria for valid evidence..... 5 Cr.
5. INTRODUCTION TO PHILOSOPHY..... 5 Cr.
100. PHILOSOPHY OF BEING. Nature of reality and its attributes. Philosophic-scientific investigations of contemporary theories on the constitution of matter. A methodical investigation of the fundamental aspects of reality; its primary divisions and attributes 3 Cr.
101. PHILOSOPHY OF GOD. The existence of an intelligent First Cause; its nature and attributes, intelligence, will, and its relation to moral and physical evil..... 3 Cr.

106. PHILOSOPHY OF NATURE. Nature, properties of material bodies 2 Cr.
115. CONTEMPORARY PHILOSOPHY. Modern movements; idealism, mysticism, intuitionism, positivism, pragmatism, realism, mechanism, and vitalism..... 5 Cr.
120. NURSES ETHICS. General principles and their application.... 5 Cr.
150. GENERAL ETHICS. General theory. Nature of moral acts. Distinction between good and evil. The moral law. Conscience, rights, man's three-fold duties, the family, society, private property 5 Cr.
151. SPECIAL ETHICS. Application of general theories to individual and social rights and duties, e.g., property, life, honor, marriage, unions, state, and international law. Arbitration..... 5 Cr.
180. HISTORY OF GREEK PHILOSOPHY. A study of the development of Greek thought from the pro-Socratic era through Plato and Aristotle to the Greco-Oriental periods..... 3 Cr.
181. HISTORY OF MEDIEVAL. Continuation of development of human thought from the Patriotic age, through the origins, growth, perfection, and decline of Scholasticism..... 5 Cr.
182. HISTORY OF PHILOSOPHY. Descartes to Kant, 1620-1780. A study of the intellectual movement from Descartes to Leibnitz and of English and French Empiricism. Kant and his successors. The Transcendental Idealism of Kant and the Monastic Idealism of his successors. Later varieties of the Empiricist theory. Pramatism. Neo-Scholasticism 5 Cr.
190. PHILOSOPHY OF RELIGION..... 3 Cr.
- 215, 225. INTRODUCTION TO TEXTS. Study of suitable translations of Plato, Aristotle, St. Augustine, and St. Thomas..... 3, 5 Cr.
- 215, 225. SEMINARS IN CONTEMPORARY PHILOSOPHY..... 3, 5 Cr.
- 260, 265. SEMINARS IN ETHICAL PRINCIPLES..... 3, 5 Cr.

PSYCHOLOGY (Psy)

Rev. James B. McGoldrick, S.J., Ph.D., Head

Undergraduate Minor: 25 hours.

1. PSYCHOLOGY. The cerebrospinal nervous system, nature, properties of sensation, imagination, emotion, habit, character. The human soul, its substantiality, spirituality, immortality, intelligence and freedom. Criticism of the theories of Ego advocated by Kant, Hume, Mill and James..... 5 Cr.
126. ABNORMAL PSYCHOLOGY 5 Cr.
140. SOCIAL PSYCHOLOGY (cf. Sociology)..... 5 Cr.
160. CONTEMPORARY SCHOOLS OF PSYCHOLOGY..... 3, 5 Cr.
165. CHARACTER EDUCATION 3 Cr.
170. OUTLINES OF PSYCHIATRY (Mental Hygiene)..... 5 Cr.
175. PSYCHOLOGY OF THE ADOLESCENT..... 5 Cr.

178. CHILD PSYCHOLOGY	5 Cr.
190. PSYCHIATRY SEMINAR	3 Cr.

DEPARTMENT OF THEOLOGY (Th)

Rev. Francis Lindekugel, S.J., S.T.L., Head

OBJECTIVE: "The proper and intimate meaning of Christian Education is this: It is a form of cooperation with divine grace towards the formation of a genuine and finished Christian man," (Pius XI, "Divini Illius Magistri.") Theology has for its specific purpose the formation of Christ in the members of Christ.

REQUIREMENTS: Catholic students must complete the five basic courses of theology: 102, 104, 107, 110, 160. The required courses must be taken in their proper order. At least one course in theology must be taken each year. Not more than one course can be taken in any one quarter. Catholic students entering the University without having completed at least two years in a Catholic High School are required to take Th. 1 in place of 102.

Undergraduate Minor: 25 hours—102, 104, 107, 110, 160, 165, 177, 179, 181, 183, 185.

In keeping with the religious purpose of the University non-Catholic students are required to take Th. 3 during their Freshman Year. The content of Th. 3 is such as to meet the desires of all without the element of controversy.

1. **FUNDAMENTALS OF CHRISTIAN DOCTRINE AND PRACTICE.** This course is designed for those Freshmen students whose religious instruction has been inadequate to prepare them for the study of theology on the College level. Th. 1 or its equivalent Th. 102, is a prerequisite for Th. 104..... 3 Cr.
3. **FOUNDATIONS OF NATURAL RELIGION.** This course undertakes to present those truths of natural religion which give meaning and purpose to human life; God, Man; Man's relationship to God and the fundamental duties that flow from that relationship; Christ, the Author of Christianity. Required of all non-Catholic students in their Freshman Year..... 2 Cr.
102. **FUNDAMENTAL THEOLOGY.** The historical reality of Christ and the reasons for Faith in His Divinity; the historical reality of Christ's Church, and the reasons for Faith in the Holy Roman Catholic Church. Th. 102, or its equivalent. Th. 1, is a prerequisite for Th. 104..... 3 Cr.
104. **DOGMATIC THEOLOGY.** Review of the Life of Christ, the Divine Source of Christian Revelation; a detailed study of the essential mysteries of Christian Revelation: The Holy Trinity, Original Justice, Original Sin; the Incarnation and Redemption; Justification and the "Four Last Things." Th. 104 is a prerequisite for Th. 107..... 3 Cr.
107. **MORAL THEOLOGY.** Review of the Life of Christ as the Divine Source of the revealed Moral Law; a detailed study of man's duties to God, to neighbor and to self; a consideration of the special duties for the different states and conditions of life. Th. 107 is a prerequisite for Th. 110..... 2 Cr.

110. **CHRISTIAN PERFECTION.** Review of the Life of Christ as the Model of Christian Perfection, followed by the study of the great law of Christian Perfection: "Be you perfect even as your heavenly Father is perfect;" a detailed study of the Christian Virtues and the Gifts of the Holy Ghost. Th. 110 is a prerequisite for Th. 160 2 Cr.
160. **THEOLOGY OF THE MASS AND THE SACRAMENTS.** Review of the Life of Christ, Mankind's great High Priest and perfect Sacrifice, in Whom is centered all of Christian Worship, through Whom we go to God in the Mass and God comes to us in the Sacraments..... 2 Cr.
165. **THE OLD TESTAMENT.** A study of the content of the Old Testament, emphasizing the Prophecies, Types and Figures of Christ, designed to give the student an appreciation of the place Christ holds in the entire Bible..... 2 Cr.
177. **THE NEW TESTAMENT.** A study of the content of the New Testament, emphasizing the Acts of the Apostles and the Letters of St. Paul..... 2 Cr.
179. **CHURCH HISTORY.** A study of the History of the Holy Roman Catholic Church from the time of the Apostles to the Middle Ages, inclusively 3 Cr.
181. **CHURCH HISTORY continued: The History of the Church** from the period of the Reformation to the present day..... 2 Cr.
183. **THE DOCTRINE OF THE MYSTICAL BODY OF CHRIST.** A synthesis of Christian Doctrine, Morality and Worship..... 2 Cr.
185. **MARRIAGE.** The plan of God for Marriage; Marriage both as a natural contract and as a Sacrament; preparation for Marriage; rights and duties of husband and wife; problems in married life; evils contrary to marriage..... 2 Cr.

SECRETARIAL STUDIES (Ss)

Miss Marie Yourglic, B.A., Head

- 16, 17, 18. **STENOGRAPHY.** The theory and application of shorthand.... 5 Cr.
- 20, 21, 22. **TYPING.** The theory and practice of typing..... 5 Cr.
101. **OFFICE MANAGEMENT** 5 Cr.
115. **BUSINESS ENGLISH** 5 Cr.
116. **OFFICE MACHINES** 5 Cr.

SOCIOLOGY (Sc)

Rev. Howard Peronteau, S.J., Ph.D., Head

Undergraduate Major: 40 hours—1, 5, 34, 105 and 20 hours upper division.

Related Minor: to be selected from Gr. I, II, or Mt. in Gr. III, cf. p. 16.

Undergraduate Minor: 25 hours—1, 5, and at least 10 hours in upper division work.

1. **PRINCIPLES OF SOCIOLOGY.** An introduction to the data and method of studying group life..... 5 Cr.

5. MODERN SOCIAL PROBLEMS.....	5 Cr.
7. INTRODUCTORY PRINCIPLES AND SOCIAL PROBLEMS....	5 Cr.
34. ELEMENTARY SOCIAL STATISTICS.....	5 Cr.
105. SOCIAL STRUCTURE AND CHANGE. The organization of society—the principles and theories of change in society.....	5 Cr.
108. SOCIAL CONTROL AND INSTITUTIONS.....	5 Cr.
132. METHODS IN THE SOCIAL SCIENCES.....	3 Cr.
134. ADVANCED SOCIAL STATISTICS.....	5 Cr.
140. SOCIAL PSYCHOLOGY: Personality in society—human conflict—mass behavior	5 Cr.
143. SOCIOLOGY OF MARRIAGE.....	2 Cr.
144. MENTALLY DEFICIENT IN SOCIAL ORDER.....	5 Cr.
156. CRIMINOLOGY. Causes of crime. History and theories of punishment and reformation.....	5 Cr.
159. JUVENILE DELINQUENCY. Casual and preventive factors....	5 Cr.
160. THE FAMILY. A brief history of the family with emphasis upon the social interaction in the American family.....	5 Cr.
163. POPULATION TRENDS, POLICIES AND PROBLEMS.....	5 Cr.
164. POVERTY, DEPENDENCY AND RELIEF.....	5 Cr.
166. RACE AND NATIONALITY	5 Cr.
170. MODERN SOCIAL REFORMS.....	5 Cr.
175. INTRODUCTION TO SOCIAL WORK.....	2 Cr.
180. RURAL—URBAN SOCIOLOGY	5 Cr.
190. SOCIO-ECONOMICS PROBLEMS	5 Cr.
202, 206. SOCIOLOGICAL THEORIES	5 Cr.
210. SOCIOLOGY OF CUSTOMS AND LAW.....	5 Cr.
215. SEMINAR IN METHODS OF SOCIAL RESEARCH.....	5 Cr.
220. ADVANCED POPULATION PROBLEMS.....	5 Cr.
247, 249. SOCIAL CRITICISM. Facts and theories are evaluated in the light of the Christian, American value system.....	5 Cr.
256. THE PAROLE SYSTEM	5 Cr.
270. SEMINAR IN MODERN SOCIAL REFORM MOVEMENTS....	5 Cr.

NOTE: Sociology majors, under the direction of their adviser, may select from CF. 105; Ed. 175, 177; Psych. 170, 178.

SPEECH (Sph)

Rev. James A. Gilmore, S.J., Ph.D., Head

40. SPEECH ESSENTIALS	5 Cr.
100. SPEECH, ADVANCED	5 Cr.
154. RADIO SPEECH	3 Cr.
162. SPEECH PATHOLOGY	3 Cr.

UNIVERSITY REGISTRATION

FALL QUARTER 1947

Colleges & Schools	Men	Women	Total
Arts & Science.....	671	342	1013
Commerce & Finance.....	404	42	446
Education	29	26	55
Engineering	328	8	336
Nursing	3	277	280
Pre Major	193	843	341
New Students—796			
TOTAL.....	1566	843	2409

WINTER QUARTER 1948

Colleges & Schools	Men	Women	Total
Arts & Science.....	684	347	1031
Commerce & Finance.....	459	37	498
Education	67	87	154
Engineering	301	7	308
Nursing	5	235	240
Pre Major	168	86	254
New Students—311			
TOTAL.....	1684	801	2485

SPRING QUARTER 1948

Colleges & Schools	Men	Women	Total
Arts & Science.....	387	308	695
Commerce & Finance.....	395	24	419
Education	83	76	159
Engineering	308	5	313
Nursing	2	196	918
Pre Major	467	84	551
New Students—152			
TOTAL.....	1642	693	2335

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Crollard, Homer A.	McKinnon, Gertrude (Sr. Mary Charlotte)	

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Coughlan, John H.	Kramer, Jr., Dwight E.	Riverman, Dorothy Michele
Cruikshank, Pauline Lillian	LaFortune, Kathleen A.	Siderius, Mercedes Ann
Doran, Arthur E.	Logan, Margaret Grace	
	Lyons, Rita Harriet	

BACHELOR OF PHILOSOPHY

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Dempsey, Robert Aquinas	Moeller, William A.	

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Carroll, Francis R.	Henderson, Charles Robert	Schneider, Helen Anne
Chamberlin, C. Joseph	Hunt, James Francis	Smith, Marvin M.
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Lynch, Harold H.	(Summa Cum Laude)	(Cum Laude)
Morrison, Lawrence William		
(Magna Cum Laude)		

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Magna Cum Laude	(Sr. Mary Virginia)	(Sr. Mary Henrica)
(History)	(Sociology)	(Philosophy)
Donnelly, John Joseph	Taylor, Mary (History)	Treacy, Thomas P. (Latin)
(History)	(Sr. Mary John Francis)	
Phillips, David L. (Latin)		
Pilon, Rev. Brother		
Eugene G. (French)		

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