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COLLEGE OF THE HOLY CROSS

A College of Arts and Sciences
Worcester, Massachusetts



CATALOGUE
With Announcements for 1954-1955

Published, March 1954

Corporate Title:

"The Trustees of the College of the Holy Cross in the city of Worcester."

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The Faculty of Holy Cross College is associated with The Classical Association of New England, The Eastern Association of College Deans and Advisers of Men, The American Catholic Historical Association, The American Historical Association, The Jesuit Philosophical Association, The American Association of Jesuit Scientists, The American Association for the Advancement of Science, The American Mathematical Society, The Mathematical Association of America, Institute of Mathematical Statistics, American Statistical Association, Association of Teachers of Mathematics in New England, The American Physical Society, American Association of Physics Teachers, Optical Society of America, Acoustical Society of America, Institute of Radio Engineers, American Astronomical Society, The American Chemical Society, The New England Association of Chemistry Teachers, The American Electrochemical Society, The Chemical Society (London), The Faraday Society, The Franklin Institute (Philadelphia), The American Institute of Chemists, The American Academy of Political and Social Science, The American Political Science Association, The American Society for Public Administration, The American Economic Association, The National Catholic Industrial Conference, The Association of Librarians of America and The American Association of University Professors.

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13

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One Hundred and Tenth Year COLLEGE OF THE HOLY CROSS Worcester 10, Mass.

Conducted by the Fathers of the Society of Jesus

Founded in 1843

ACT OF INCORPORATION

An act of the Legislature of Massachusetts, date March 24, 1865, reads as follows:

COMMONWEALTH OF MASSACHUSETTS

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND SIXTY-FIVE

AN ACT

to incorporate the Trustees of the College of the Holy Cross

Be it enacted by the Senate and House of Representatives in General Court assembled and by the authority of the same, as follows:

SECTION 1. James Clarke, Charles Fulmer, James C. Moore, Charles F. Kelly, Livy Vigilante, their associates and successors, are hereby constituted a body corporate by the name of the Trustees of the College of the Holy Cross, in the city of Worcester, and they and their successors and such as shall be duly elected members of such corporation, shall be and remain a body corporate by that name forever; and for the orderly conducting of the business of said corporation, the said trustees shall have power and authority, from time to time, as occasion may require, to elect a President, Vice-President, Secretary, Treasurer, and such other officers of said corporation as may be found necessary, and to declare the duties and tenures of their respective offices, and also to remove any trustee from the corporation when in their judgment he shall be rendered incapable, by age or otherwise, of discharging the duties of his office, or shall neglect or refuse to perform the same, and also from time to time to elect new members of said corporation; provided that the number of members shall never be less than five nor more than eleven.

SECTION 2. The said corporation shall have full power and authority to determine at what times and places their meetings shall be holden, and the manner of notifying the trustees to convene such meetings, and also from time to time to elect a President of said College, and such professors, tutors, instructors and other officers of the said College, as they shall judge most for the interest thereof, and to determine the duties, salaries, emoluments, responsibilities and tenures of their several offices; and the said corporation is further empowered to purchase or erect and keep in repair such houses and other buildings as it shall judge necessary for said College, and to confer

such degrees as are conferred by any college in this Commonwealth, except medical degrees; provided nevertheless, that no corporate business shall be transacted at any meeting unless a majority of the trustees are present.

Section 3. Said corporation may have a common seal which it may alter or renew at pleasure, and all deeds sealed with the seal of said corporation and signed by its order, shall, when made in the corporate name, be considered in law as the deeds of said corporation, and said corporation may sue and be sued in all actions, real, personal, or mixed, and may prosecute the same to final judgment and execution, by the name of the Trustees of the College of the Holy Cross; and said corporation shall be capable of taking and holding, in fee simple or any less estate, by gift, grant, bequest, devise or otherwise, any lands, tenements, or other estate real or personal, to an amount not exceeding three hundred thousand dollars.

Section 4. The clear rents and profits of all the estate, real and personal, of which the said corporation shall be seized and possessed, shall be appropriated to the endowment of said College, in such manner as shall best promote virtue, piety, and learning in such of the languages and of the liberal and useful arts and sciences as shall be recommended from time to time by the said corporation, conforming, however, to the will of any donor or donors in the application of any estate which may be given, devised, or bequeathed, for any particular object connected with the College; and no misnomer of the said corporation shall defeat or annul any donation, gift, grant, devise or bequest, to or from the said corporation.

SECTION 5. The Legislature of this Commonwealth may alter, limit, restrain, or annul, any of the powers, vested by this act in the said corporation, as shall be deemed necessary, and more especially may appoint overseers, or visitors of the said College, with all necessary powers for the better aid, preservation and government thereof.

SECTION 6. The granting of this Charter shall never be considered as any pledge on the part of the Commonwealth that pecuniary aid shall hereafter be granted to the College.

House of Representatives, March 21, 1865. Passed to be enacted, Alex. H. Bullock, Speaker.

In Senate, March 23, 1865.

Passed to be enacted, I. E. Field, President.

March 24, 1865.

Approved.

JOHN A. ANDREW, Governor

ACT OF INCORPORATION

(Chapter 149.)

THE COMMONWEALTH OF MASSACHUSETTS

IN THE YEAR ONE THOUSAND NINE HUNDRED AND TWENTY-SEVEN

AN ACT

Authorizing the Trustees of the College of the Holy Cross to hold Additional Real and Personal Estate.

Be it enacted by the Senate and House of Representatives in General Court assembled and by the authority of the same, as follows:

Section three of chapter ninety-nine of the acts of eighteen hundred and sixty-five is hereby amended by striking out, in the twelfth and thirteenth lines, the words, "to an amount not exceeding three hundred thousand dollars,"—so as to read as follows:—

Section 3. Said corporation may have a common seal, which it may alter or renew at pleasure, and all deeds sealed with the seal of said corporation, and signed by its order, shall, when made in the corporate name, be considered in law as the deeds of said corporation; and said corporation may sue and be sued in all actions, real, personal or mixed, and may prosecute the same to final judgment and execution by the name of the Trustees of the College of the Holy Cross; and said corporation shall be capable of taking and holding in fee simple or any less estate, by gift, grant, bequest, devise, or otherwise, any lands, tenements, or other estate, real or personal.

House of Representatives, March 16, 1927

Passed to be enacted, John C. Hull, Speaker.

In Senate, March 17, 1927

Passed to be enacted, Wellington Wells, President.

March 23, 1927 Approved.

ALVAN T. FULLER,
Governor.

THE COMMONWEALTH OF MASSACHUSETTS Office of the Secretary

Boston, March 25, 1927.

A True Copy

Witness the Great Seal of the Commonwealth.

(Signed) F. W. Cook, Secretary of the Commonwealth.

THE COLLEGE

The College of the Holy Cross is situated in Worcester, Massachusetts, the second largest city in the state, with a population of over 200,000.

The campus contains one hundred and sixty-three acres and is conveniently located at the southern end of the city, approximately two miles from the business district, at an elevation of 693 feet above the sea. It commands an extensive and most delightful view of the city and of the neighboring hills.

HISTORY

The College of the Holy Cross was founded in the year 1843 by the Most Rev. Benedict Joseph Fenwick, second Bishop of Boston, and is the oldest Catholic College in New England. It had long been a cherished desire of Bishop Fenwick to establish in his diocese, which then included the City of Worcester, an institution for the higher education of Catholic young men. In bringing about the realization of this desire he was aided by the Rev. James Fitton, who had, as early as 1838, established the Seminary of Mt. St. James on the hill which now bears that name, but was then known as Pakachoag, "Hill of Pleasant Springs." This institution Father Fitton presented to the Bishop in 1843, and on this site the distinguished prelate determined to build his college. He gave it the name of his Cathedral, with the motto and emblem of the Boston Diocese — a cross in the heavens, as it appeared to the Emperor Constantine, with its historic legend.

In order to secure for New England students the benefits of that unique plan of collegiate instruction, the Ratio Studiorum, which had been for over two centuries the invigorating pattern of continental education, Bishop Fenwick invited the founders of that system, the Fathers of the Society of Jesus, whose missionary and educational activities on the North American continent began as early as 1610, to organize the courses of study according to the curricula of their college at Georgetown in the District of Columbia, and to take entire charge of the teaching. On the second day of November, 1843, the first classes were organized, and were held in the seminary structure until the completion of the first college building in January, 1844

The generous patronage and zealous interest of Bishop Fenwick continued unfailingly, and a few days before his death on the 6th of August, 1846, he coded to the Jesuit Fathers full possession of the institution, land and buildings unencumbered.

A disaster that threatened its existence visited the young college in July, 1852, when the whole of the central building was destroyed by fire. Through the sympathetic cooperation of Most Rev. John B. Fitzpatrick, who had succeeded to Bishop Fenwick's See, only a single scholastic year was lost, for the college, enlarged and remodeled, reopened on the 3rd of October, 1853.

BUILDINGS

Fenwick Hall, named for the Founder of Holy Cross College, is the oldest of the college buildings. In the spring of 1875 the remnant spared by the fire of 1852 was raised and extended toward the east. The central span houses the offices of the administration on the first floor, faculty living quarters on the second and third, and student dormitories on the fourth. The east frontage is occupied, on the first floor, by the faculty refectory, while the upper part of the building contains the Community Chapel. The infirmary is located in a small wing adjoining this part of the building at its south end.

O'Kane Hall, named for a former beloved Rector of Holy Cross, stands at the summit of Linden Lane facing the campus. It was built in 1895 and is a lively center of undergraduate activity. On the first floor is a spacious, comfortably furnished foyer and reception hall. Two floors of the south wing and a part of the west are occupied by the Department of Chemistry; on the second floor is the Chemistry reference library. Six laboratories are in constant use by the students. The Fenwick assembly hall is located in the O'Kane building and features a large and well-equipped stage for dramatic productions. On the upper floors of the building are located several corridors of pleasantly situated students' quarters.

Alumni Hall, erected in 1905 through generosity of former students, is a thoroughly modern, fireproof building. The upper floors contain nearly one hundred student living rooms, extensively renovated in 1940. The rest of the building is devoted to the purposes of the Physics Department. Here are situated the lecture rooms, apparatus rooms, reference library and laboratories where students of this branch of science are instructed in theory and trained in practice.

Beaven Hall, gift of the late Most Rev. Thomas D. Beaven, D.D., and the clergy of the Springfield diocese, opened to its first occupants in September, 1913. Modern in every detail, the three upper floors, renovated in the summer of 1941, provide comfortable living quarters. Classrooms and offices are located on the first floor.

Carlin Hall. In the month of October of the year 1941, the Board of Trustees of the College of the Holy Cross unanimously resolved to change the name of Loyola Hall to Carlin Hall. This change of name is intended to perpetuate the memory of the Very Reverend James J. Carlin, S.J., President of the College of the Holy Cross from 1918 to 1924, under whose direction the building was erected in 1922. The upper floors provide living rooms. Classrooms, faculty offices and accounting laboratories are located on the lower floors.

Wheeler Hall, dedicated to the memory of the Rev. John D. Wheeler, S.J., for many years active in the administration of the College, was opened in January, 1940. The upper floors provide living rooms. Five classrooms are located on the lower floor.

Hanselman Hall, one of the two new student dormitory buildings now under construction, is a modern three and one half story building with accommodations for one hundred and eighty-two students and eight faculty members. A spacious student lounge is located on the first floor. The building is named after the Reverend Joseph F. Hanselman, S.J., President from 1901 to 1906.

Lehy Hall, the second of the two new student dormitory buildings now under construction, stands on the west side of Hanselman Hall and is similar to it in design and construction. It will accommodate one hundred and seventy-four students and eight faculty members. It is named after the Reverend John F. Lehy, S.J., President from 1895 to 1901.

Campion Hall, a small homelike building opened in 1936, provides living quarters for a limited number of students.

Dinand Library, situated on the terraced slope between O'Kane and Beaven Halls, exemplifies the best tradition of the architecture of the Italian Renaissance. It was dedicated in November, 1927, and named after the Most Reverend Joseph N. Dinand, S.J., D.D., twice President of the College of the Holy Cross. The number of volumes owned are approximately 156,819 and they represent to a satisfactory degree every major classification of the Library of Congress, according to which system the Holy Cross collection is catalogued. Hundreds of classified pamphlets, periodicals and manuscripts in various fields increase the students' reference resources.

In the Reading Room is found the principal reference collections, encyclopedias, dictionaries, bibliographies, year books, concordances and other utensils, both general and special.

Occupying the entire lower floor of the east wing, the Browsing Room is designed for a comfortable indulgence in recreational reading.

The Periodical Room is above and co-extensive with the Browsing Room. Over three hundred and fifty periodicals, from daily newspapers to annuals, both foreign and domestic, and in several languages, are received on subscription.

The west wing of the main floor houses the Museum, where are exhibited many of the choice, valuable and historic treasures of the College. Valuable paintings, sculptures, coins, books and pamphlets whose antiquity, rarity of edition give them a peculiar value, documents associated with the growth of the College, the history of the Church and the development of the country, autographs and manuscripts are some of the categories represented in the Museum exhibit. Of special interest is the growing collection of Jesuitana, which embraces the works of many early writers of the Society of Jesus.

St. Joseph Memorial Chapel, the center of the students' spiritual life, rears its colonnaded facade above the scene at the eastern extremity of the campus. Known for its architectural beauty and purity of design, it is a fitting symbol of the ideals that permeate and dominate the culture of Holy Cross.

Kimball Hall, a beautiful and commodious refectory building, was opened on January 6, 1935. This building contains a kitchen and refectory accommodating twelve hundred students. It contains also a theatre accommodating seven hundred, a cafeteria, the office of Discipline, the bookstore and a number of other rooms for various activities.

Biology Building, opened in 1951, is a modern three story building situated on the west side of Beaven Hall. Devoted exclusively to the teaching of biology, it contains two large lecture rooms, five laboratories, a reference library, museum, offices for the faculty, stock rooms, and other facilities for the proper functioning of the department.

Social Hall. This building, formerly the intramural gymnasium, is now used exclusively for recreational and social purposes. It is equipped with pool and billiard tables, bowling alleys, a rifle range and other recreational facilities.

The Astronomical Observatory at the east end of the campus houses a dark room, work room and dome for the five inch refractor.

The Intramural Gymnasium contains basketball courts, handball courts and the necessary space and equipment for gymnastic exercises. This building provides adequate accommodations for participation in indoor sports for a large number of students. The offices of the College Athletic Association and Varsity Coaches are also located here.

The Athletic Fields contain the football gridiron, the baseball diamond, the quarter-mile track, tennis courts, basketball courts, hockey rink, and facilities for all other outdoor sports. The baseball diamond on Fitton Field is bounded on the east by the football gridiron which is surrounded on four sides by stadia seating nearly 23,000. Freshman Field and Alumni Field are suitable for practice and for the games of the intramural teams. On the plateau that crowns the hill south of the College buildings, as well as on the lower east level, are laid out diamonds and gridirons for intramural contests, in which the majority of undergraduates participate.

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American Catholic Philosophical
Association

American Committee on United
Europe
American Irish Historical Society
American Medical Association
Francis T. Anderson
Bernard M. Baruch

Robert Bentley Matthew F. Blake, '33 Ronald Boccieri, '53 Boston College High School T. Raymond Bouley Edward Brawley, '48 Clarence A. Breault Brotherhood of Locomotive Firemen and Enginemen Bruckner Society of America The Burlington Diocese, Burlington, Carnegie Corporation of New York Carnegie Institution of Technology Carrier Corporation Catholic Book Club Center for Research on World Political Institutions, Princeton University The Christianform Clark University Seward B. Collins, deceased. John J. M. O'Shea, Ex., '25 Rev. C. A. Cordon, '11 (Bequest) John T. Croteau, '31 Mr. and Mrs. Myles Costello, '20 Miss Mildred Crowley Mr. and Mrs. John F. Cullina Hon. Harold Donohue Dow Chemical Company Prof. Francis Drumm, '22 The Dryden Press Maurice Duchaine, '53 Frederick Dyer, '38 Henry Edmiston In memory of J. Frank Facey Peter M. Fahrendorf, '55 Mr. and Mrs. Edward Feeney Rt. Rev. John F. Ferraz (Bequest) Rt. Rev. John J. Fletcher Bernard J. Foley, '37 Miss Harriet A. Foley Joseph Ford The Foundation for Economic Edu-Foundation for Foreign Affairs A Friend W. Arthur Garrity, '05

Erwin W. Geissman, '42

Georgetown College Gerald M. Gibbons Zygmund Gonglewski David J. Gorman, '53 Prof. William Grattan, '38 Rev. Thomas Griffin
John J. Hagerty John J. Hagerty Andrew J. Haire Haverford College Library Mr. and Mrs. Allan R. Healey Miss Alice Hearn In memory of Margaret Sweeney Heffernan Henry M. Hogan, '18 Holy Cross College-Class of 1949 Holy Cross College-Class of 1953 James M. Hoy, '05 Government of the Italian Republic Mrs. John Jandron Jesuit Philosophical Association Mrs. David Johnson Miss Mary A. Jordan Hon. Philip W. Kelleher, '35 Edward A. Kennedy, '34 Hon. John F. Kennedy William P. Kennedy, '00 William J. Kiernan, '53 Rev. Arthur Kimball, '27 Stanislaus J. Kubik Rev. Michael E. Lahey, '13 (Bequest) Prof. William F. Lahey, '23 Charles LaPalme, '53 Rev. F. Chester Leahy, '10 William E. Leahy, '07 Edmond J. Leonard, '50 Mrs. James E. Leonard Library of Congress Frank J. Lucey Mrs. Ethel V. Lund Miss Anne D. McAuliffe Dr. and Mrs. Vincent McBrien Rt. Rev. John McCarthy, '00 Daniel J. McCarty, Jr., '47 Miss Harriet McDonald Miss Nellie A. McDonnell Patrick McDonough John F. McGillicuddy

Edward J. McHugh, '51 Daniel Macken, '55 Matthew M. McMahon Rev. Frederick R. McManus Miss Mary McNamara Miss Catherine Madigan Stephen P. Mahoney Manhattanville College of the Sacred Heart Mrs. Malvina Martineau Commonwealth of Massachusetts Robert Miller George B. Moran, '06 Frank L. Mott Mt. St. Mary's College, California William Muldoon Bart J. Murphy Mutual Insurance Company National Foundation for Education in American Citizenship New York University The Norton Company Estate of Miss Rachel Norton Donough O'Brien Robert W. O'Brien Dr. Dennis F. O'Connor, '93 William J. O'Connor, '39 S. T. O'Keefe Olin Industries, Inc. The Oratory, Birmingham, England Ambrose O'Shea, '03 William J. O'Shea, '54 Miss Anne Owens Pacific Polytechnic Press William Phelan, '38 University of Portland Mrs. Andrew A. Rafferty Henry Regnery Company Philip Reidy, '41 Robert C. Reidy, '37 Mrs. Louise J. Rouleau

St. John's University, Brooklyn St. Louis University Library St. Paul, Minn., Dept. of Public Welfare St. Robert's Hall, Pomfret Shadowbrook Sisters of Mercy, Worcester Smithsonian Institution The Spanish Consul Dr. and Mrs. Joseph Stanton State Farm Life Insurance Company Foster Stearns Miss Louise Stuart Susquehanna University Frank Sullivan Mary C. Sullivan Myron C. Taylor University of Texas Press In memory of James A. Treanor, '95, by his sons and daughters Mrs. George Trevor U. S. Marine Corps U. S. Steel Corporation Updegraff Press, Ltd. Utah Agricultural College University of Virginia Library William Volker Charities Fund Estate of David I. Walsh Dorothy Wayman Hugh Weideman, Jr., '50 Wellesley College Library West Virginia University Library Weston College Wilkes College Robert R. Wiseman, '13 Mrs. M. E. Witham World Calendar Association Yale University Extension Division Thomas Youdan Rev. William V. Lucey

EDUCATIONAL SYSTEM

The system of education is the one common to all the colleges of the Society of Jesus and is guided by the principles outlined in the famous Ratio Studiorum. It is a system based on studied experience and centuries of observation. In this system the principle of unity in education is of prime importance. It makes the education of a youth from his entrance into college to the completion of his course a graded, related and systematic unit directed not to the mere accumulation of facts, but to the development of his mental faculties and the training of his character.

This system invests education with all the sanctity and serious responsibility of religion itself. It holds that the attainment thereof can best be had by particular means. These means, as it conceives them, are adapted to all students because all are alike in those particulars with which education in its proper meaning has to do. While admitting that students vary in talents, in powers of application, in mental tendencies and aptitudes, the system fearlessly asserts that all students have intellectual faculties essentially similar, v. g., memory, powers of observation, of reasoning, of judgment, of imagination and of discrimination; and since these powers are of the same essential character in all, they are strengthened and developed by similar exercises and similar training in whomsoever found.

It proceeds on the theory that genuine education calls throughout for the supervision and control of trained, experienced educators and is not to be regulated by the inexperienced student himself. Keeping in view the essential distinction between collegiate and university education, as that of a general as distinguished from a special or professional education, the studies are for the most part prescribed. Its immediate object makes this course imperative. It aims at the preliminary development of the whole man as the essence of education and its only legitimate meaning. After this is had, specialization along particular lines may properly follow.

Assuming that there is a hierarchy in the branches of knowledge, this system insists on the advantages of a prescribed training in the humanities, mathematics, natural or social sciences, logic, psychology, ethics and religion as the best basis for any profession or for further intellectual training in any direction.

This system rests on the theory that men of fully developed faculties who have been previously trained to correct and accurate reasoning, to close observation, to tireless industry, to keen discrimination, to sustained application, to sound and sober judgment, to vivid and lively imagination, ordinarily will outstrip in any line of human endeavor the single-sided man who immediately applies his untried, unprepared and untutored powers to his special life-work.

The College of the Holy Cross, therefore, following a system elaborated by centuries of experience and meeting the demand for modern improvements by wise adaptation and readjustment, undertakes to mould the characters of her students to habits of patient industry, of mental and moral temperance and intelligent interests. By the constant exercise and concordant enlarge-

ment of many faculties, by an introduction to many sciences, by grounding in logic, in the general principles of philosophy and in ethics, this training preserves any one faculty in the formative period of life from so abnormally developing as to stunt or atrophy others. It lays before the student in large outline a map of the realm he may afterwards traverse in part and in detail, and it co-ordinates and relates his after-specialty to other learning. It aims at the double end of maturing the faculties and fixing the habits, and at the same time constructing a firm, broad, solid and substantial foundation on which to erect the superstructure of particular callings.

After the completion of such a course as is here given, the graduate is not sent to the medical school without sufficient preparation in chemistry, physics and biology. Nor does he lack a clear knowledge of the moral responsibility of the physician and surgeon. He is not sent to the law school without an intelligent grasp of the ethical nature and development of man and of the logical processes which make for and characterize sound judgment. He is not sent to the profession of teaching without adequate training for success in grasping truth and imparting it to others, without a more intimate knowledge of the responsibility of a teacher than he can acquire from a few vague talks on pedagogy. He is not sent to the theological seminary without any knowledge of the language in which the New Testament was written, or the methods of philosophical reflection and their bearing upon the problems of life and destiny. On the contrary, when the graduate passes from the college, whether he devotes himself chiefly to the highest learning, or seeks at once a training in applied science or in a profession, he will at any rate carry into the university a mind equipped for the work it demands.

Method of Teaching. The College is in its method of teaching primarily tutorial, not professorial. The formation it proposes to give is effected by personal and intimate relations between small groups of pupils and a teacher, whose duty comprehends guidance, advice and encouragement as well as instruction.

In order that this tutorial method may be pursued most effectively, a number of instructors are assigned to each Hall, and in every Student-House teachers reside to whom the students may have recourse for guidance in studies.

Such a method of education gives the student time and opportunity to study. It enables him to compare his capacities and inclinations. It helps him to make a life decision which shall be founded on observation, experience and reason.

Religious Training. The supervision over the student's moral life is as systematic as the direction of his mental life. Education, as understood in this system, is, as has been said, the training of the whole man, in which training the supreme element is growth along the lines of Christian morality. The whole system rests on the principle that men cannot truly advance in knowledge unless they advance more closely to God. The truth expressed in bold letters over the entrance to the College Library emphasizes the ulti-

mate purpose of education as understood in this college. "Ut Cognoscant Te Solum Deum Verum Et Quem Misisti Jesum Christum."

While recognizing in its fullest extent the advantages of a liberal education in the purely secular order, the College at the same time understands that education must contain a power that can form or sustain character. Only when it is occupied with the entire man, particularly with those faculties that are distinctive of man, and with man's entire life, the present and the future, does education attain its ultimate end.

The scope of education is not limited to the commercial advantages it possesses or the qualities it confers on its votaries to move among men with that ease and grace of manner which is the flower of the humanities. Education should rather seek to form a Christian character. Through a training addressed to the student's spiritual nature his character is strengthened against the disturbing forces of his impulses and passions.

Rightly, therefore, does Holy Cross College insist that in every stage of intellectual development religious instruction be interwoven with training in the secular branches of knowledge. This instruction aims at planting in the heart such principles of rectitude as will afterwards serve as a guide, a warning, a stimulus. Since Religion is the highest concern of man, as well as the strongest defense of a nation, Religion is made a prescribed subject. Men, long trained in the world's best wisdom, whose consciences have been formed to the law of God by years of self-discipline are the expounders of the eternal truth.

Student Counsellor. The principal duty of the Student Counsellor is to direct the spiritual activities of the College and the various religious societies and sodalities, in regard to which he exercises the same supervision as the Dean of Discipline exercises in his department.

He provides opportunities for the students to receive the Sacraments in addition to times assigned for the general student body.

He is in a special sense the friend and adviser of the students, not only in matters directly spiritual, but also material and temporal, in their studies, their social affairs, and in other intimate and personal matters as each one may wish.

One of the questions of highest importance to every college or high school graduate is the wise choice of a profession or vocation according to one's character, talents and attractions both natural and supernatural. No student with a serious outlook on life will fail to determine, well in advance of his graduation, the career which under God's providence will best assure his temporal success and his eternal happiness. In this matter the arranged to afford ample opportunity to the students for conferring with him.

Discipline. A closer supervision is exercised over the students than is usual at the present day in most of the large colleges. Yet an effort is made to exclude from this supervision every harsh feature. The professors live

with the students, mingle with them constantly, direct their studies, interest themselves in their sports and in every way assume the relation rather of friend than of taskmaster. This constant, familiar, personal communication, in kindly terms between professor and student, is a powerful factor in the formation of character.

The age of the student is also considered, and in the later years of his college course a larger degree of liberty is granted him. With regard to all, the enforcement of discipline, while mild and considerate, is unflinchingly firm, especially when there is question of the good of the student body or the reputation of the College.

Students are expected to manifest both within and outside of the College the respect for order, morality, personal honor and the rights of others, that is required of good citizens. Failure to do this will necessitate withdrawal from the College. The administration reserves the right to dismiss a student at any time without any definite charge.

Detailed regulations and customs governing discipline are set forth in the Student Hand-Book.

GENERAL INFORMATION

Student Health Service. All resident students at the College of the Holy Cross are entitled to medical service with the following privileges: (1) Consultation with the College Physician, daily, if necessary. (2) Visits by the College Physician while the student is confined in the College Infirmary. (3) Board, room and nursing at the College Infirmary. Nursing attendance is rendered by the nurse regularly employed by the College. Special outside nurses, if employed, must be paid for by the student.

No student is obligated to patronize the College Physician. With the permission of the College Director of Health and at the expense of his parents, a student may consult any physician approved by his parents. When medicines are prescribed the expense is to be borne by the student. The College cannot furnish regular special diets to students who may require such treatment. Expenses incurred for hospital treatment must be defrayed by the individual student.

In addition, the College has approved a student accident medical reimbursement insurance plan which offers the student maximum benefits at low cost for the calendar year. This supplementary plan may relieve parents of possible financial strain in meeting this type of unanticipated expenses. A circular giving details of this plan will be mailed to all parents with the September bill.

Entertainment. In addition to the special lectures given for all students, or for special groups by qualified lecturers, special theatrical productions, concerts and recitals are given during the year. Motion pictures are presented at least once a week.

Student Employment. Some employment is available at the College of the Holy Cross for students who need to earn part of their college expenses. To merit employment, students must meet certain academic, disciplinary and financial requirements. The compensation is proportionate to the number of hours of employment, and the amount earned is applied on the student's account with the College.

Placement Bureau. The Placement Bureau was established to render service to all Holy Cross men who registered with the Bureau. Undergraduates of all classes are urged to utilize the vocational guidance facilities of the Bureau at any time. Seniors and alumni registrants are given every possible assistance in finding satisfactory employment.

A series of vocational guidance talks is held during the year in which successful alumni and other business and professional leaders speak informally on the subject of their own vocations and answer questions. Further guidance is given through the dissemination of career books, pamphlets and monographs covering many vocations and occupations.

From time to time, especially during the spring term, employment officers of large corporations arrange through the Placement Bureau to come to the Holy Cross campus to interview seniors with regard to prospective positions with their organizations.

Registration. Freshmen and new students will receive all information relative to registration upon application to the Office of the Director of Admissions.

All students must report to the Registrar in Chapel Auditorium at the time appointed, and fill out enrollment cards for the semester. A certificate from the Treasurer for payment of the semester bill must be presented to the Registrar.

For failure to register at the appointed time, students will be charged a late registration fee of five dollars.

Before registration, each student must file in the Office of the Director of Admissions a certified statement of good health from his physician.

The College Year. The College Year begins on the third Tuesday of September and ends on the second Wednesday of June, with recess periods at Christmas and Easter.

It is constituted of two semesters of sixteen weeks each.

Class Hours. There are eight class periods each day, Monday through Friday, and three class periods on Saturday morning. Class or laboratory

periods begin at 8:40 A.M. and continue to 5:30 P.M. (with an hour at noon for funch period).

The morning class periods are from 8:40 A.M. to 12:30 P.M.; the afternoon periods from 1:40 P.M. to 5:30 P.M.

Attendance at College Exercises. Students are required to be diligent in the pursuit of their studies and regular in their attendance at classes. Those who fail to meet these requirements will be requested to withdraw.

Each student must attend all of the classes in which he is enrolled, including elective lectures on subjects intimately connected with classroom study, and all chapel exercises.

Absence from any class may be excused only by the Dean of Studies. Students are not entitled to a certain number of unexcused absences.

If, in any semester, a student's absences exceed ten percent (10%) of the number of classes required for a course in which he is enrolled, he will receive no credit for that course.

In case of absence for a prolonged period due to illness or some other compelling cause, the application of the above rules may be modified by the Committee on Standards upon the recommendation of the Dean; but in no case will more than twenty (20) days of absence in a semester be allowed.

Grading System. The system of scholarship grading is as follows: A semester grade of A or B+ is an honor grade; C+ is the recommendation grade; D is the passing grade; E is a conditional failure; F is an absolute failure.

A semester grade is the average of examinations, term papers, written and oral quiz marks.

All semester examinations must be passed before credit will be allowed in any course.

The regulations respecting semester examinations and semester grades apply as well to the final examinations in each philosophy treatise.

A general average of C+ is required for recommendation to graduate or professional schools.

A report of class standing is made at the end of each semester.

Credit Hours. As generally accepted by the ruling of the Association of American Universities and Colleges, a semester hour represents a course which meets once a week throughout the semester. In ordinary lecture courses, the class period is of fifty minutes duration; in cases in which the class period is conducted in the style of a conference or seminar, the period is longer, or a greater number of them is required to give an equivalent number of credits; in all laboratory work, the length of a period required to give a semester hour credit is twice the length of the ordinary lecture period.

Scholastic Deficiency. A student is "on probation" if, at the end of a semester, he has failed to complete satisfactorily any course for which he was registered in progress towards his degree requirements.

A student who, at the end of a semester, has received grades below D in three of his courses will not be eligible for advancement. His case will be subject to the decision of the Committee on Standards. Depending on the nature of each case, this Committee will decide whether the student is to be a) dropped from the College register, or b) allowed to qualify for advancement by satisfactory repetition of the courses failed, or c) allowed re-examination in the instance of conditional failures.

A sudent with a deficiency of credit (incurred either through absence or failure) must make up that deficiency at the time appointed by the Dean to remain in good standing.

A student who has been dropped for studies may be readmitted subject to conditions to be determined by the Dean.

Extra Courses. A student in either Sophomore or Freshman class is not permitted to carry a greater number of hours than the normal number required in his course. Upperclassmen with a general average of B or over may, with the approval of the Dean, register for an extra course. The charge for such courses is at the rate of \$12.00 per semester hour credit.

Credit for Summer Session Work. The approval of the Dean of Studies is requisite to gain credit for work done in summer school at another college. Summer School courses must be passed with a grade of C or better to be recognized by the College as degree credits.

Voluntary Withdrawal from College. A student who withdraws voluntarily from the College is entitled to honorable dismissal under the following conditions:

- He must be in good standing on the records of the College, i.e. not liable to dismissal on account of failures, excessive absence, or breach of discipline.
- 2. He must return all College property.
- 3. All financial indebtedness must be settled with the College.
- 4. He must give proper notification to the Dean of his intention to withdraw from the College.

Transcripts of College Record. Each student is entitled, on leaving the College, to a transcript of his record free of charge if his financial obligations to the College have been fulfilled. For additional transcripts a fee of one dollar will be charged.

No transcripts will be issued during the periods of Commencement, Registration and Examinations.

COLLEGE EXPENSES

GENERAL

Tuition. \$500.00 per academic year. This includes all ordinary charges except laboratory and special fees.

Board and Room. \$700.00 per academic year. This includes the laundry of bed linen and infirmary accommodation when required.

Some room accommodations will cost \$50.00 less per academic year.

The above expenses do not include textbooks, laboratory fees, or incidental expenses.

Payment of Bills. Bills for one half of each of these fees will be issued two weeks prior to the opening of each semester as follows:

BOARDING STUDENT	\$600.00
DAY STUDENT	\$250.00

This semester bill is payable in advance, but in no case later than the day of registration.

Bills for other fees (laboratory and special fees) are payable when rendered.

Deferred payment of bills may be sanctioned only by the Treasurer of the College of the Holy Cross after an application has been received in writing. For such concession a monthly fee at the rate of fifty cents per \$100.00 unpaid will be added to the account. The first of such charges will be added one month after payment is normally due and each month thereafter.

Make all checks and money orders payable to the Treasurer, College of the Holy Cross.

SPECIAL FEES

Acceptance Deposit. Upon receipt of formal notice of acceptance for admission to Holy Cross, all candidates are required to forward a (non-refundable) \$25.00 Deposit. Of this amount \$10.00 is apportioned to the student's Matriculation Fee; \$10.00 to the Room Deposit Fee and the remainder to the student's general account.

Graduation Fee. A graduation fee of \$15.00 is assessed against each student who is a candidate for a degree.

Late Registration Fee. A student who fails to register at the appointed time is required to pay a fee of \$5.00.

Examination Fee. A student obliged to take an examination, due to absence from or conditional failure in the regular examination, is charged a fee of \$5.00 for each such examination.

Extra Courses. Upperclassmen, at the discretion of the Dean of the College, may be permitted to register for an extra course. The fee for such courses is at the rate of \$12.00 per semester hour credit.

Radio Fee. A fee of \$5.00 for the year is charged to boarding students who have a radio in their room.

Room Damage Deposit. A deposit of \$10.00 is required of boarding students and a deposit of \$5.00 of day students against unreasonable damage done by them.

These deposits, less any charge, are refundable at the end of the school year and will be credited on the first bill issued for the following year.

LABORATORY FEES

Each student taking a laboratory course is liable for breakage, damage and loss of apparatus. In addition to the annual tuition fee, there is a fee for each laboratory course taken.

	Breakage Deposit	Fee
Chemistry 11.1; 11.2; 13.1; 13.2; 51.1; 51.2	each \$ 7.50	each \$12.50
Chemistry 41.1; 41.2	" 7.50	" 7.50
Chemistry 61.1; 61.2	" 17.50	" 12.50
Chemistry 51.3	" 15.00	" 15.00
Chemistry 201; 207; 208	" 15.00	4 25.00
Chemistry 203; 213	" 35.00	" 25.00
Chemistry 21.2; 31; 52.1; 52.2	" 15.00	" 20.00
Chemistry 21.1; 32	" 20.00	" 20.00
Biology 63		10.00
Biology 43.1; 43.2		each 10.00
All Other Biology Courses	•	" 15.00
Physics 32; 33		" 5.00
All Other Physics Courses		" 10.00
Accounting		5.00

Students registered for a two semester science course will be billed for the full year course.

Breakage deposits, less cost of breakage and/or loss of equipment, are refundable at the completion of the course.

Students enrolled in the Air Force R. O. T. C. must deposit \$25.00 with the Treasurer of the College as a guarantee that they will return government property in good condition. This deposit is refundable.

VETERANS

The Veterans' Administration pays toward tuition, fees, and costs of books and supplies the amount of \$500.00 per academic year for those Veterans who are eligible for training under Public Law No. 346. All costs for these services over and above that amount are borne by the individual unless he authorizes payment by the V.A. on Form 7-1909.

The Veterans' Administration pays tuition, fees, and costs of books and supplies in accord with a contract with the College for those Veterans training under Public Law No. 16.

All other costs are the personal responsibility of the Veteran.

NAVAL R. O. T. C.

Certain NROTC students have a portion of their costs borne by the United States Navy in accord with a contract with the College. This contract usually covers cost of tuition, fees (except refundable deposits) and necessary books. Students participating in this program are personally responsible for costs not borne by the Navy.

RESERVE OFFICERS' TRAINING CORPS

The College of the Holy Cross offers, as part of its regular curriculum, the ROTC programs of the Air Force and the Navy. The programs of both services consist of one course each semester for four years (acceptable for credit towards a degree), one drill period per week, and at least one summer training camp or cruise.

The Air Force program leads to a commission in the Air Force Reserve and prepares for specific duties in the Regular Air Force, the Air Force Reserve and the Air National Guard Units. The Naval ROTC program prepares qualified officers for the Navy and Marine Corps, the Naval Reserve and the Marine Corps Reserve.

A description of both programs and the requirements for enrollment may be found in the section Courses of Instruction of this catalogue under "Air Science and Tactics" and "Naval Science and Tactics".

ADMISSION TO THE COLLEGE

GENERAL STATEMENT

All correspondence relative to the procedure on application and all inquiries on matters of interest to prospective candidates should be addressed to the Director of Admissions. It will be to the candidate's advantage to make formal application early in the final year of his secondary school Studies. The application blanks to be used for this purpose will be furnished on request.

The final decision as to the acceptance of all candidates rests with the Board of Admissions. Candidates should note that in determining the admission status of an applicant the Board will take into consideration such factors as are adjudged pertinent in evaluating the applicant's qualifications in terms of the standards and traditions of the College. That a student have the requisite scholastic credentials, as far as credits and mental proficiency are concerned, is not to be assumed as a guarantee of acceptance. A favorable report must be received from the Principal of the secondary school attended by the applicant, appraising the student's personal qualifications, e.g., initiative, dependability, seriousness of purpose, application to study and deportment. Furthermore, the candidate must be of high moral character. Each candidate is also required to forward a certified statement of good health from his family physician. The information submitted by the candidate on the application questionnaire, relative to his personal background, range of interests and participation in extra-curricular activities, will be given due consideration. Basing its selection of candidates on evidence derived from these sources, supplemented by personal interviews when possible, the Board of Admissions will give preference to those applicants whose mental and personal qualifications indicate that they are prepared to cooperate in a conscientious and profitable use of the distinctive educational advantages which this College offers to its students.

SCHOLASTIC CREDENTIALS

Students approved for admission to the Freshman Class are selected from applicants who are graduates of approved secondary schools and who, on the basis of four years' work in a college preparatory course, offer sufficient credits to satisfy the minimum admission requirements of fifteen entrance units in approved subjects. The "unit" is the term conventionally employed as a standard of measurement of the work done in the secondary school, and is understood to represent the study of a high school subject for the duration of a school year of at least thirty-six weeks, on a basis of four to five recitation periods per week.

All units submitted to satisfy entrance requirements must be recognized by the secondary school as credits towards graduation in a college preparatory course. Commercial, vocational or industrial subjects will not be accepted as entrance units. Candidates for admission may submit entrance units in the following subjects:—

Units	Units
English I (Grammar and Com-	Advanced French 1
position) 2	Elementary German 2
English II (Literature) 2	Intermediate German 1
Ancient History 1	Advanced German 1
European History 1	Elementary Italian 2
American History 1	Intermediate Italian 1
English History 1	Advanced Italian 1
American History and Civil	Elementary Spanish 2
Government 1	Intermediate Spanish 1
World History 1	Advanced Spanish 1
Problems of Democracy 1	Elementary Algebra 1
Social Studies 1	Intermediate Algebra 1
Economics 1	Plane Geometry 1
Geography	Solid Geometry
Law	Plane Trigonometry
Civil Government	General Science 1
Latin (Elementary) 1	
Latin (Caesar) 1	Chemistry 1
Latin (Cicero) 1	Physics I
Latin (Virgil) 1	Mechanical Drawing 1
Greek (Elementary) 1	Biology I
Greek (Xenophon's Anabasis) 1	Astronomy 1
Greek (Homer's Iliad) 1	Physical Geography 1
Elementary French 1	Botany 1
Intermediate French 1	Zoology 1

UNIT REQUIREMENTS FOR THE VARIOUS COURSES

To be eligible to enroll for any one of the several courses included in the curriculum a specified number of units in required subjects must be offered. Elective subjects, sufficient to bring the total to 15 units, will be accepted but these additional units must be included in the list of approved subjects. The following table summarizes the required and elective units to be offered by candidates for the various degrees:

BACHELOR OF ARTS (Greek Curriculum)

Subject	Unit
Latin	3 to
English	
Algebra	1 to
Plane Geometry	
History	
Modern Foreign Language	
Greek or Electives	

35

ADMISSION TO COLLEGE

BACHELOR OF ARTS (Mathematics Curriculum)

	(Mathematics Curriculum)	
Subject		Units
Latin .		3 to 4
English		4
Algebra	***************************************	2
Plane G	eometry	. 1
Solid G	eometry	1/4
A TIGOTIO	mcuy	1/6
*Modern	Toroism Tanana	2
- MOGELI	Foreign Language	2
	Bachelor of Science (Biology)	
Subject		Units
English		4
Algebra		2
Plane G	eometry	1
*Modern	Foreign Language	9
History	***************************************	2
Science	***************************************	1 to 2
Electives	***************************************	2 to 3
6 7	(Chemistry, Mathematics or Physics)	
Subject		Units
English	<u> </u>	4
Algebra C		2
Solid Ca	eometry	1
Trigonor	netry	
Science		1 to 9
Modern	Foreign Language	1 10 2
History	***************************************	9
Electives	***************************************	1 to 2
	BACHELOR OF SCIENCE	 الدي
Business	Administration, History, Social Sciences or	Education)
Subject		Units
English		4
Algebra	***************************************	1 to 2
Flant G	cometry	1
Electives	cometry	1
Electives Modern	cometry	4 to 5

•No credit will be allowed for a single year of a modern foreign language. Candidates who present no secondary school credit in a modern foreign language must register in one or other of the elementary courses offered in modern foreign languages and continue their study of the language chosen throughout sophomore year. A comprehensive examination will be given at the completion of the sophomore year language course. Those who fail to satisfy the reading requirements must continue their study of the language in junior year. German is the prescribed modern foreign language for students in the Chemistry curriculum.

METHODS OF ADMISSION

Candidates are admitted to the College of the Holy Cross (1) by examination in specified subjects or (2) by a combination of certificate and examination.

ENTRANCE EXAMINATIONS

All candidates for admission to the College of the Holy Cross are urged to take the College Entrance Examination Board Scholastic Aptitude Test (morning program). Furthermore, candidates who have not achieved certification grades in subjects designated by the College are required, in addition to the Scholastic Aptitude Test, to take the appropriate afternoon College Entrance Examination Board Achievement Tests. Required certificate grades vary in subject according to the course to which a candidate seeks admission. A list of these subjects will be found in the Entrance Bulletin.

ACCEPTANCE DEPOSIT

Candidates, upon receipt of final notification of the acceptance of their applications, are obliged to forward a guarantee fee of twenty-five dollars (\$25). Confer page 30 of this catalogue.

DORMITORY ACCOMMODATIONS

Under normal conditions the residence halls of Holy Cross have accommodations for approximately one thousand students. Each living room in the student dormitories is provided with the essential articles of furniture, such as desks, chairs, lockers, beds, mattresses, pillows. Students are expected to supply their own bed linens, towels and any additional furnishings such as rugs, curtains, etc.

SCHOLARSHIPS

A limited number of scholarships are awarded annually to incoming and enrolled students. Information concerning these scholarships and a list of the scholarships available will be found on pages 104 — 110 of this catalogue.

ADMISSION TO COLLEGE

37

FRESHMAN WEEK PROGRAM

For a period of several days following upon Registration and before the formal opening of classes all Freshmen are required to participate in the orientation program conducted under the supervision of the Dean of Freshmen and the Heads of Departments. By this means the College seeks to aid the new student in properly adjusting himself to college life and to impress him with the distinctive advantages and educational opportunities which the College offers to its undergraduates. During this period Freshmen will have an opportunity to become acquainted with the physical features of the campus, to inspect the various college buildings and to note the location of lecture halls and classrooms. The sequence of guidance lectures given at this time by various members of the Faculty is planned to equip the student with a knowledge of the aims and scope of the various courses and to advise him with regard to efficient study techniques and proper use of the Library. A series of placement tests will be given to all Freshmen during this period.

ADMISSION TO ADVANCED STANDING

A student honorably dismissed from another college may be considered for admission to the College of the Holy Cross on advanced standing. After an appraisal of his previous college record, credit will be allowed for such courses as are equivalent to courses offered at Holy Cross College and which have been passed with a grade of at least C. Such a student will be required to complete satisfactorily all the prescribed courses leading to the Bachelor's degree and to complete at least the full Senior year's work at Holy Cross College. An applicant for advanced standing should have the proper officials of institutions previously attended forward to the Office of the Dean official transcripts of secondary school and college records.

VETERANS

Returning veterans who, prior to their enlistment, satisfactorily completed their secondary school studies and are eligible for training under the educational benefits of Public Laws 550 and 894 will be accepted for admission to Holy Cross as entering Freshmen or with advanced standing, contingent upon their meeting the entrance requirements.

Servicemen who apply for admission prior to demobilization should submit a brief statement of their previous educational background, including the name and location of schools they have attended. Veterans who wish to support their application with supplementary information as to their academic competence and mental proficiency, may arrange to take the General Educational Development Test through the facilities of the U. S. Armed Forces Institute.

Veterans applying for admission to the Freshman class should write to the Director of Admissions. Veterans applying for admission with advanced standing should write to the Office of the Dean.

REQUIREMENTS FOR DEGREES

The College of the Holy Cross offers curricula leading to the degrees of Bachelor of Arts (B.A.), Bachelor of Science (B.S.) and *Master of Science (M.S. in Chemistry).

•Requirements for this degree will be found on page 90.

BACHELOR OF ARTS HONORS DEGREE

This course is established to foster the ambitions of those students who have manifested more than the ordinary intellectual ability during their secondary school education, and to enable them to complete their knowledge through the medium of the classic tongues of Rome and Greece.

Based on the time-honored principles of the famous Ratio Studiorum, it is calculated to give those students who are sincerely interested in the humanities more comprehensive and more independent work than can be given profitably in other courses.

Holy Cross considers this course as representative of the classical principles for which she has long been noted and well adapted to develop fully and harmoniously the intellectual, moral and physical powers of the student.

To be recommended for this degree the candidate must attain a "B" grade in seventy-five per cent of his courses and at least a "C+" grade in the remaining twenty-five per cent. The scholastic success of the student is noted in his degree by the distinction of honors, honors cum laude, honors magna cum laude, and honors summa cum laude. Students who fail to attain these grades may be recommended for a degree without honors. Honor students are expected to do original and intensive work in their chosen branches and must render an account of their work by personal conferences with their instructors and by group discussions.

BACHELOR OF ARTS DEGREE

WITH GREEK. This course offers the same plan of study as the Bachelor of Arts Honors course. It differs from the Honors course in that the work is less intensive and the grade of D is the minimum required grade. This course is offered to those who wish to pursue the traditional classical curriculum without meeting the exacting requirements of the Honors Course.

WITH MATHEMATICS. This course represents a plan of study which differs from the Honors course in that mathematics is substituted for Greek in the Freshman and Sophomore years, and the grade D is the minimum required grade. This course is offered to those who are proficient in mathematics and wish to continue the study of that subject in college while following the cultural sequence of the Bachelor of Arts curriculum.

BACHELOR OF SCIENCE DEGREE

Students who are not qualified to meet the language requirements of the Arts course, or who wish to select a curriculum which will prepare them for a particular career, may choose a curriculum in one of the following fields leading to the Bachelor of Science Degree: Biology, Chemistry, Physics, Mathematics, Business Administration, History, Social Sciences or Education. These courses, in addition to the work in the field chosen, offer a balanced training in language, literature, history, philosophy, psychology and ethics.

To be recommended for one of the above degrees a student must satisfactorily complete all course requirements in his field of concentration, e.g. a candidate for the Bachelor of Science degree in Biology must complete satisfactorily all courses required by the College for this degree.

PRE-MEDICAL AND PRE-DENTAL COURSES

Courses leading to the Bachelor of Arts degree and to the Bachelor of Science degree in Biology provide adequate preparation for admission to medical and dental schools.

PRE-LEGAL COURSES

Elective sequences in pre-legal subjects are included in the Arts curriculum in Junior and Senior years for those students who wish to satisfy the prerequisites for admission to law school.

The courses in Business Administration, History, Social Sciences and Education also provide adequate preparation for admission to law school.

SCHOLASTIC DISTINCTION

Scholastic distinction in all courses is noted on the candidate's degree by the qualification "cum laude", "magna cum laude", or "summa cum laude".

R.O.T.C. STUDENTS

Appropriate substitution in all courses is made for students enrolled in the Air Force and Naval R.O.T.C. Units.

THESIS REQUIREMENT

To be recommended for any degree a student must, in addition to the satisfactory completion of all courses required for his degree, submit during his Senior year an acceptable thesis of at least 3000 words on a special subject approved by the Chairman of the Department in which he writes his thesis. For students majoring in Chemistry, an experimental thesis is optional. Two typewritten copies of the thesis must be submitted to the Dean at the appointed time.

REQUIREMENTS FOR THE BACHELOR OF ARTS DEGREE

Honors and Non-Honors

Freshman Year
English 3.1, 3.2
Latin 1, 2,
Greek 1, 2 or 5, 6 or
Mathematics 13.1, 13.2
Modern Foreign Language
History 2.1, 2.2
Religion 1, 2

Junior Year
Philosophy 41, 42, 43, 44
Religion 45, 46
Science
Electives (12 credit hours)

Sophomore Year
English 22.1, 22.2
Latin 21, 22
Greek 17, 18 or 39, 40 or
Mathematics 23.1, 23.2
Modern Foreign Language
History 22.1, 22.2
Religion 23, 24

Senior Year
Philosophy 51, 52, 53, 54
Philosophy 55, 56
Religion 57, 58
*Electives (12 credit hours)

PRE-MEDICAL AND PRE-DENTAL

Freshman Year
English 3.1, 3.2
Latin 1, 2
Greek 1, 2 or 5, 6 or
Mathematics 13.1, 13.2
French or German
Chemistry 11.1, 11.2
Religion 1, 2

Junior Year
Philosophy 41, 42, 43, 44
Religion 45, 46
Biology 2, 44
History 3.1, 3.2
Physics 1, 2

Sophomore Year
English 22.1, 22.2
Latin 21, 22
Greek 17, 18 or 39, 40 or
Mathematics 23.1, 23.2
French or German
Chemistry 31, 32
Religion 23, 24

Senior Year
Philosophy 51, 52, 53, 54
Philosophy 55, 56
Religion 57, 58
Biology 61, 62
Chemistry 61.1, 61.2

iGreek is a required subject for the Bachelor of Arts Honors Degree. Students not offering Greek entrance units begin their study of the language in the Freshman Year.

*To fulfill the science requirement of Junior Year, one of the following may be taken: Biology 43.1, 43.2, Chemistry 41.1, 41.2, Physics 41.1, 41.2 or Physics 75, 76.

*Elective courses may be chosen from one of the following fields: English, Classical Languages, Romance Languages, German, History, Economics, Education, Political Science, Sociology, Mathematics and the Natural Sciences.

REQUIREMENTS FOR DEGREES

41

REQUIREMENTS FOR THE BACHELOR OF SCIENCE DEGREES

A. MAJOR: BIOLOGY

Freshman Year

Biology 1, 2 Chemistry 11.1, 11.2 English 3.1, 3.2 French or German Mathematics 17, 18 Religion 1, 2

Junior Year

Philosophy 41, 42, 43, 44 Religion 45, 46 Biology 44, 62, 63 Physics 1, 2

Sophomore Year

Biology 61, 41 Chemistry 31, 32 English 22.1, 22.2 French or German History 3.1, 3.2 Religion 23, 24

Senior Year

Philosophy 51, 52, 53, 54 Philosophy 55, 56 Religion 57, 58 Biology 31, 35 Chemistry 61.1, 61.2

B. MAJOR: CHEMISTRY

Freshman Year

Chemistry 13.1, 13.2, 12 English 3.1, 3.2 German Mathematics 13.1, 13.2 Physics 1, 2 Religion 1, 2

Junior Year

Philosophy 41, 42, 43, 44 Religion 45, 46 Chemistry 51.1 Chemistry 61.1, 61.2 Mathematics 42

Sophomore Year

Chemistry 21.1, 21.2 English 22.1, 22.2 German History 3.1, 3.2 Mathematics 23.1, 23.2 Religion 23, 24

Senior Year

Philosophy 51, 52, 53, 54 Philosophy 55, 56 Religion 57, 58 Chemistry 51.2, 51.3 Chemistry 52.1, 52.2

C. Major: Mathematics

Freshman Year English 3.1, 3.2

French or German Chemistry 11.1, 11.2 Mathematics 13.1, 13.2 Physics 1, 2 Religion 1, 2

Sophomore Year

English 22.1, 22.2 French or German History 3.1, 3.2 Mathematics 23.1, 23.2 Mathematics 31, 32 Religion 23, 24

Iunior Year Philosophy 41, 42, 43, 44 Religion 45, 46 Economics 5.1, 5.2 Mathematics 41.1, 41.2 Mathematics 63.1, 63.2

Senior Year Philosophy 51, 52, 53, 54 Philosophy 55, 56 Religion 57, 58 Mathematics 45.1, 45.2 Mathematics 55.1, 55.2

D. MAJOR: PHYSICS

Freshman Year English 3.1, 3.2 French or German Chemistry 11.1, 11.2 Mathematics 13.1, 13.2 Physics 1, 2 Religion 1, 2

Junior Year Philosophy 41, 42, 43, 44 Religion 45, 46 Mathematics 41.1, 41.2 Physics 43.1, 43.2 Physics 44.1, 44.2 or Physics 53, 60

Sophomore Year English 22.1, 22.2 French or German History 3.1, 3.2 Physics 21, 45 Mathematics 23.1, 23.2 Religion 23, 24

Senior Year Philosophy 51, 52, 53, 54 Philosophy 55, 56 Religion 57, 58 Physics 52, 54 Physics 34, 61 or Economics 5.1, 5.2

E. MAJOR: BUSINESS ADMINISTRATION

The following courses are prescribed for all candidates for the Bachelor of Science degree with a major in Business Administration.

Freshman Year Economics 5.1, 5.2 Economics 6.1, 6.2 English 3.1, 3.2 Modern Foreign Language History 3.1, 3.2 Mathematics 2.1, 2.2 Religion 1, 2

Junior Year Philosophy 41, 42, 43, 44 Religion 45, 46 Economics 62, 43

Sophomore Year. Economics 22, 8 English 22.1, 22.2 Modern Foreign Language Religion 23, 24

Senior Year Philosophy 51, 52, 53, 54 Philosophy 55, 56 Religion 57, 58 Economics 78.1, 78.2

In addition to the courses listed as prescribed, the following are required for concentration in a particular field.

1. MAJOR STUDY: ACCOUNTING

Sophomore Year
Economics 33.1. 33.2

Junior Year
Economics 50.1, 50.2

Senior Year

Economics 41, 74

Economics 58.1, 58.2 Economics 59.1, 59.2

2. MAJOR STUDY: ECONOMICS

Sophomore Year
Economics 66, 45

Junior Year
Economics 41, 47

Senior Year

Economics 64, 46

Economics 67
Economics 80.1, 80.2

3. Major Study: Industrial Relations

Sophomore Year Economics 23, 45 Junior Year

Senior Year

Economics 41, 94 Economics 80.1, 80.2 Economics 90.1, 90.2 Economics 98

4. Major Study: Marketing

Sophomore Year Economics 23, 45 Junior Year

Senior Year

Economics 41, 98 Economics 56, 96 Economics 97, 67 Economics 99

F. MAJOR: EDUCATION

Freshman Year
Education 1, 32
English 3.1, 3.2
French, German or Spanish
History 2.1, 2.2
Mathematics 17, 18

Religion 1, 2

Junior Year

Philosophy 41, 42, 43, 44

Religion 45, 46

Science

Education 64, 70

Electives (6 credit hours)

Sophomore Year
Education 31, 61
English 22.1, 22.2
French, German or Spanish
History 22.1, 22.2
Sociology 31.1, 31.2
Religion 23, 24

Senior Year
Philosophy 51, 52, 53, 54
Philosophy 55, 56
Religion 57, 58
Education 51, 52
Electives (6 credit hours)

G. MAJOR: HISTORY, POLITICAL SCIENCE

Freshman Year
English 3.1, 3.2
French, German or Spanish
History 2.1, 2.2, 4
Mathematics 17, 18
Sociology 31.1, 31.2
Religion 1, 2

Junior Year
Philosophy 41, 42, 43, 44
Religion 45, 46
Science
Electives (12 credit hours)

Sophomore Year
English 22.1, 22.2
French, German or Spanish
History 22.1, 22.2
Economics 5.1, 5.2
Political Science 11.1, 11.2
Religion 23, 24

Senior Year
Philosophy 51, 52, 53, 54
Philosophy 55, 56
Religion 57, 58
Electives (12 credit hours)

H. MAJOR: SOCIAL SCIENCES

Freshman Year
English 3.1, 3.2
French, German or Spanish
History 2.1, 2.2
Mathematics 17, 18
Sociology 31.1, 31.2
Religion 1, 2

Junior Year
Philosophy 41, 42, 43, 44
Religion 45, 46
Science
Electives (12 credit hours)

Sophomore Year
English 22.1, 22.2
French, German or Spanish
History 22.1, 22.2
Economics 5.1, 5.2
Political Science 11.1, 11.2
Religion 23, 24

Senior Year
Philosophy 51, 52, 53, 54
Philosophy 55, 56
Religion 57, 58
Electives (12 credit hours)

Junior and senior year electives may be taken in the field of Economics, Political Science or Sociology.

¹To fulfill the science requirement of Junior Year, one of the following may be taken: Biology 43.1, 43.2, Chemistry 41.1, 41.2, Physics 41.1, 41.2 or Physics 75, 76.

COURSES OF INSTRUCTION

DEPARTMENT OF ACCOUNTING AND ECONOMICS

Professors Peragallo, (Chairman), McCarthy; Associate Professors R. F. X. Cahill, T. J. Cahill, Callaghan, Foley, Hogarty, Smith; Assistant Professors Caronna, Grant, McDermott; Instructor Devine.

Economics 5.1. Principles of Economics 1.

An introduction to the field of economic science; factors of production, industrial stages, form of the business unit; large scale production and combinations; the laws of price; supply and demand; competitive prices; monopoly price. Study is also made of money; money and price; the principles of banking; banking systems; the business cycle; foreign exchange.

Three credit hours.

Economics 5.2. Principles of Economics II.

A continuation of Economics I, treating of the economics of railroad transportation; industrial monopoly and its control; the distribution of wealth; economic rent; the nature of interest; the general law of wages; profits, public finance; proposed reforms of the economic system.

Three credit hours.

Economics 6.1. Elementary Accounting I.

This course provides the basic instruction necessary for an intelligent understanding of the books and records used in business. It discusses the principles of debits and credits, opening and closing books, classification and analysis of accounts, controlling accounts, the voucher system, trial balance, preparation and analysis of financial statements. Problem work in the accounting laboratory is required.

Three credit hours.

Economics 6.2. Elementary Accounting II.

A continuation of Elementary Accounting I, treating of the account development of the different forms of business organizations including the individual proprietorships, partnerships and corporations; analysis of the different types of assets and liabilities. Problem work in the accounting laboratory is required.

Three credit hours.

Economics 8. Economic Geography: World Industries and Resources.

The purpose of this course is to analyze the regional distribution of world industrial activities. A study is made of the distribution and comparative importance of manufacturing, mining, forestry and agriculture in relation to such factors as power resources, raw materials, climate, landforms, centers of population and for understanding industrial and commercial opportunities and limitations in various areas of the world.

Three credit hours.

Economic History of the United States. Economics 22.

Economic development from colonial days to the present time including modern European developments that affect the United States; the principal industrial interests such as agriculture, mining, fishing, manufacturing and transportation, money and banking, and the problems of labor, immigra-Three credit hours. tion, tariff and world-wide commercial relations.

Economics 23. Applied Economics.

The chief objective of this course is to strengthen the student's grasp of economic principles and to help him to interpret economic theory to the point where it becomes more definitely workable for the solution of business problems. The student during this course will consider a series of business cases that have a direct bearing upon the economic issues under Three credit hours. consideration. Prerequisite: Eco. 5.2.

Economics 33.1, 33.2. Intermediate Accounting

This course provides instruction in corporation accounting with special emphasis on manufacturing and trading activities. Some of the topics covered are: capital stock, bonds payable, corporation securities as assets, surplus, process and distributive costs, branch accounting, consolidated statements, budgets, analysis and interpretation of financial statements, valuation of assets. Practice work consists of carefully graded problems and a manufacturing corporation set of blanks. Prerequisite: Eco. 6.2.

Six credit hours.

Economics 41. Money, Credit and Banking.

The purpose of this course is to introduce the student to the general economic principles governing modern monetary arrangements, credit and banking in the economic organization. In each instance the genetical development is followed. Special emphasis is placed on the Federal Reserve System, its credit control facilities and endeavors. Prerequisite: Eco. 5.2.

Three credit hours.

Business Statistics. Economics 43.

An introduction to basic concepts and applications of statistics, with emphasis on a description of frequency distributions (averages, dispersion and simple correlation) and an introduction to statistical inference, time series and index numbers. It is not intended for students who take college mathematics through calculus. Problem work in the statistical laboratory is Three credit hours. required. Prerequisite: Eco. 5.2. and Math. 2.2.

Economics 45. Introduction to Industrial Relations.

The purpose of this course is to survey the entire field of industrial relations including the development of unions, the place of collective bargaining in our present economic structure and the problems of labor as they have evolved out of this economic society. The efforts at the solution of these problems by labor unions, employers and the government will be analyzed. Three credit hours. Prerequisite: Eco. 23 or 66.

COURSES IN ACCOUNTANCY AND ECONOMICS

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Economics 46. Modern Economic Theories.

This course deals with the ideas and theories which are now current, examining the biographical background of the various authors, the genesis of their contributions, and instituting a critical evaluation of their work. Prerequisite: Eco. 23 or 66.

Three credit hours.

Economics 47. Comparative Economic Systems.

An historical and critical analysis of the various systems of economy is made. The origin, nature, function and economic significance of Communism, Socialism, Nazism, Fascism, Co-operation, Capitalism, Corporatism are explained.

The broad foundations of social philosophy underlying each system are emphasized, as are the variants between theory and practice. The social goals and economic institutions of the various systems are compared. Prerequisite: Economics 23 or 66.

Three credit hours.

Economics 50.1. Cost Accounting I.

This course consists of an introductory study of cost accounting. It considers the process of recording the expenses of operating a business from the standpoint of production and distribution costs. The following topics are discussed: cost and account classifications; subsidiary cost ledgers; and accounting for materials, labor and overhead. Prerequisite: Eco. 33.2.

Three credit hours.

Economics 50.2. Cost Accounting II.

This course develops cost technique presented in Cost Accounting I. A survey is made of the principal methods of cost accumulation and analysis. A study is made of the types of information necessary for executives in their control of production, sales and finances. Topics discussed: job order and process costs; standard costs; by-product and joint-product costs; and budgets. Prerequisite: Eco. 50.1.

Three credit hours.

Economics 56. Principles of Marketing.

This course covers the meaning and cost of market distribution; development of marketing methods; the consumer movement and factors which affect consumption; income and its distribution; functions of transportation, storage, standardization, and grading; various types of retail and wholesale institutions; their functions, problems, and expenses; channels of distribution; integration; direct marketing; brokers and other agents; organized produce exchanges and speculation; merchandising; analysis of margins, expenses, profits and failures of marketing concerns, buying and stock turnover; and governmental regulations. Prerequisite: Eco. 23 or 66.

Three credit hours.

Economics 58.1, 58.2. Auditing.

This course covers both the theory and practice of auditing. The laboratory work consists of an actual test audit of a small manufacturing concern. Practical questions and problems are solved only by an actual examination

of the records and books of the company. The theory of auditing is developed and explained as the audit progresses. Prerequisite: Eco. 50.2.

Six credit hours.

Economics 59.1, 59.2. Federal Income Tax Accounting.

This course provides instruction in Federal Income Tax Laws and their application to the incomes of individuals, partnerships, corporations, and fiduciaries. Practice in making out reports and returns, and a study of the procedure of handling claims, form the basis of applied instruction. Prerequisite: Eco. 33.2.

Economics 60.1, 60.2. Pro-Seminar in Accounting.

Critical analysis of the principles and postulates of accounting and a study of the historical development of accounting procedures. Research topics assigned and reported upon and group discussion. Four credit hours.

Economics 62. Corporation Finance.

This course treats of the financial structure of corporations, the factors affecting capitalization, the sources of capital funds, the procedures of corporation promotion, the methods and sources of short-term borrowing, the problems and techniques of internal financing and financial policy, corporate expansion and consolidation, failure and reorganization, liquidation. Emphasis is put on case work in the analysis of growing business concerns, and on familiarity with the sources of financial information. Prerequisite: Eco. 5.2.

Three credit hours.

Economics 64. History of Economic Thought.

The aim of this course is to stress critically the development of ideas and theories which now dominate economic science, by viewing these various contributions at their sources. Prerequisite: Eco. 23 or 66. Three credit hours.

Economics 66. Economic Theory.

This course builds upon the student's knowledge of the generally accepted principles of economics. It introduces the student to the various points of view adopted by various economists and analyzes critically the scope, methodology, nature, significance and limitations of scientific inquiry in the field of economics. Likewise it re-examines the postulates, conditions and assumptions of the orthodox economic analysis under conditions of pure and imperfect competition. Finally it takes some cognizance of the changing relationships between government and business. Prerequisite: Eco. 5.2.

Three credit hours.

Economics 67. International Trade and Finance.

A study of world trade, foreign investments, debtor and creditor nations, theory of free trade and protective tariffs and a discussion of the recent methods in the control of imports, exports, foreign investments, and the special problems arising from the international movement of goods, services, and capital. Prerequisite: Eco. 41.

Three credit hours.

Economics 74. Business Management.

An exposition of the operations of a business firm following scientific principles. Emphasis is on the two principal functions of manufacturing, production and selling, with other activities properly related by planning, organizing and controlling. Prerequisite: Eco. 5.2.

Three credit hours.

Economics 78.1, 78.2. Business Law I and II.

This course is intended to give the student some knowledge of the ordinary legal aspects of common business transactions. The course includes contracts, agency, sales, negotiable instruments and other topics of special importance as a law background of business. Required of all seniors majoring in Business Administration.

Four credit hours.

Economics 80.1. Government in Economic Life I.

This course presents an investigation of the philosophical basis of government-business relationship together with an historical development of control. It includes also a study of American constitutional tools and the practice of enforced competition. Prerequisite: Eco. 5.2. Three credit hours.

Economics 80.2. Government in Economic Life II.

A continuation of Economics 80.1, treating of special problems of control relative to trusts, public utilities, transportation, extractive industries, exchanges and labor.

Three credit hours.

Economics 90.1. Collective Bargaining and Union Management Negotiations.

This course presents union-management negotiations which include the protection and determination of bargaining rights in modern industry, the bargaining unit, helps and hindrances to bargaining, the types of shop in union contracts, grievance procedures, means of mediation and arbitration, seniority rules and other factors which occupy the representatives of management and labor when they meet to bargain. Prerequisites: Eco. 45 and Eco. 94.

Three credit hours.

Economics 90.2. Collective Bargaining and Union Management Negotiations.

A case study of bargaining contracts as they have worked out in industry under the National Labor Relations Act. It takes into consideration the effects of various laws which have been passed and which affect the bargaining between labor and management. Prerequisite: Eco. 90.1.

Three credit hours.

Economics 94. Social and Labor Legislation.

A non-technical study of the various Federal statutes affecting industrial relations. Scope: a review of the background of Labor Law, the application of the Sherman Act to labor organizations, the Norris-La Guardia Act, the

Railway Labor Act, the National Labor Relations Act, the Labor Management Relations Act, Social Security and Workmen's Compensation. Study by case method is utilized to bring out the content of these statutes and interpretations by courts and administrative agencies. Prerequisite: Eco. 45.

Three credit hours.

Economics 95. Pro-Seminar in Economic Order.

Reading and research under direction on a series of economic problems with individual reports and group discussions.

Three credit hours.

Economics 96. Retail Distribution.

A survey of the fundamentals of retailing, including elements of retail profit; merchandise policies and merchandise selection; pricing and buying; merchandise control; sales promotion policies; service policies, advertising, display and layout methods; personnel and organization; store system and operation; accounting, credit and finance. This course will also consider general management policies. The case method will be followed based on "Problems in Retailing" by McNair, Gragg, and Teele, Prerequisite: Eco. 56.

Three credit hours.

Economics 97. Sales Management.

A consideration of the types of sales organizations, the relations between the various departments connected with selling activities, selection of salesmen, training of salesmen, salesmen's reports, supervision and stimulation of salesmen. The course is intended to give the student an understanding of the sales problems which present themselves to the distributive end of the average business. Prerequisite: Eco. 96.

Three credit hours.

Economics 98. Personnel Administration.

This course attempts to give a more specific knowledge of the field of Personnel Management. It explains the nature and development of the field, the technique of selection and placement, the maintaining of sound personnel relations as reducing turnover, handling transfers, dismissals, etc.; conducting safety programs and instituting employee welfare measures. Prerequisite: Eco. 94 or Eco. 45.

Three credit hours.

Economics 99. Principles of Advertising.

A basic course dealing with the function, theory, principles and application of advertising. Prerequisite: Eco. 97.

Three credit hours.

DEPARTMENT OF AIR SCIENCE AND TACTICS

Colonel Murray, U.S.A.F. (Chairman), Lieutenant Colonel Trojanowski, U.S.A.F., Major Bennert, U.S.A.F., Major Mand, U.S.A.F., Major O'Connor, U.S.A.F.

The mission of the Air Force Reserve Officers' Training Corps is to select and prepare students, through a permanent program of instruction at

civilian educational institutions, to serve as officers in the Regular and Reserve components of the United States Air Force, and to assist in discharging, where necessary, any institutional obligation to offer instruction in military training.

The College of the Holy Cross is one of one hundred and eighty-seven Colleges and Universities throughout the country which have Air Force R.O.T.C. Units.

The program of instruction of the Air Force R.O.T.C. at Holy Cross is divided into two courses—the Basic Course, normally completed during the Freshman and Sophomore years and the Advanced Course, normally completed during the Junior and Senior years. During the Basic Course, the Air Force furnishes the A.F.R.O.T.C. student with the distinctive Air Force Blue Uniform and necessary text books. While pursuing the Advanced Course, the student is allotted the sum of one hundred dollars for the purchase of uniforms. Text books required are furnished by the Air Force. In addition the A.F.R.O.T.C. advanced student is entitled to commutation of subsistence which amounts to approximately twenty-seven dollars per month, and between his Junior and Senior year, he attends a four to six week summer camp, for which he is paid at the rate of seventy-five dollars a month.

Students who meet certain qualifications and who are selected by a board of officers, military and institutional, are granted a deferment from induction into the service under the Selective Service Act, provided they sign a deferment agreement, in which they agree among other things, to serve on active duty for a period of not less than two years after receipt of a commission as second lieutenant, subject to call by the Secretary of the Air Force, until the eighth anniversary year of receipt of such commission.

ELIGIBILITY REQUIREMENTS

A candidate for enrollment must be a citizen of the United States between the ages of 14 and 23 years at the time of enrollment, be of high moral character and take such physical examinations as may be prescribed by proper authority and/or present a certificate of health from a doctor.

COURSES OF INSTRUCTION

AS 101 Introduction to A.F.R.O.T.C. Introduction to Aviation and Fundamentals of Global Geography.

A history of development of aviation, a description of classes and types of aircraft, parts of an airplane and the basic principles of flight. The evolution of geographical knowledge, map projections, major geographic regions of the earth, the geography of weather, geographical basis of power and military aspects of global geography.

Two credit hours.

AS 102 International Tensions and Security Organizations and Instruments of National Military Security.

Factors that contribute to the status of a nation as a world power; forces that develop tensions between world powers, problems of international

security resulting from these tensions, the world military situation, international security structures that have been established to deal with the problem of security, and the role of the United States in world leadership. Historical development of the Armed Forces. Military aviation, the place of airpower in modern war, characteristics and capabilities of military aviation, the future of military aviation in the United States.

Two credit hours.

AS 201 Elements of Aerial Warfare.

The study of targets including definition and types of military targets, and intelligence procedures related to targets, i. e., cycle pattern of intelligence activities, aerial photographs, target systems, and selection. The study of weapons including definition and types of aerial weapons, embracing conventional high-explosive and atomic bombs, rocket-propelled missiles, chemical, biological, and psychological warfare. The study of delivery aircraft, dealing with factors governing design and types of such aircraft.

Two credit hours.

AS 202 Elements of Aerial Warfare and Careers in the USAF.

The study of the air ocean with emphasis on the significance of the air as a medium for delivery of weapons and problems associated with delivering weapons through the air ocean. The study of air bases viewed with the air base as a platform for the delivery of weapons, and associated problems. The purpose and operation of the USAF Officer Career Program.

Two credit hours.

AS 301 AF Commander & Staff; Problem Solving Techniques; communicating in the Air Force; Military Courts and Boards.

Introduction to advanced Air Force ROTC. The Air Force Commander, his responsibilities and functions, and his Staff. Problem solving techniques; a series of steps to be considered in problem solving, and conference technique in the solution of problems. The Communications Process and Air Force correspondence; learning as a communicative process, and teaching methods. Military Law, Courts and Boards.

Four credit hours.

AS 302 Applied Air Science; Air craft; Engineering; Navigation; Weather.

Applied Air Science. Aerodynamics and propulsion; aircraft engines; aerial navigation and weather, including teletype weather reports, maps and charts. Air Force Base Functions. The typical air base organization, its functions and functions of the various base officers.

Four credit hours.

AS 401 Principles of Leadership and Management; Career Guidance; Military Aspect of World Political Geography.

Development of the concepts and principles of command and their application. Principles and application of sound military management. Relationship between academic background and Air Force careers. Personal assistance in selecting an Air Force career suited to each individual's qualifications. Familiarization with major geographical regions from a

global point of view. Relationship between our country and other geographical regions, politically and militarily. Geography of weather and weather characteristics of all parts of the world.

Four credit hours.

AS 402 Military Aspects of World Political Geography (cont.); Military Aviation and the Art of War; Briefing for Commissioned Service.

Framework of international politics, geographical bases of power, world powers and strategic areas and related military aspects of world political geography. Implications of modern warfare as shown by historical applications of principles and maneuvers on land, sea and air. Emphasis is placed on military aviation, strategic and tactical aerial warfare. Information concerning the preparation and reporting for assignments, personal affairs in the Air Force, 201 file, Air Force Reserve Components, and an officer's future in the Air Force.

Four credit hours.

DEPARTMENT OF BIOLOGY

Professor Busam (Chairman); Associate Professors Campbell, Crowe, Assistant Professor Flavin.

Biology 1. General Botany.

A general survey of the plant kingdom, beginning with a study of the vegetative organs of flowering plants, treating both gross and minute structures in their various modifications and physiology. Plant cytology receives detailed consideration with studies in cell structure, nuclear and cell division, and the meiotic divisions. This prepares the ground for a complete synoptic series of the various phyla treated immediately next in order. The course concludes with special studies of the reproductive organs of the flowering plant. Two lectures and two (two-hour) laboratory periods.

Four credit hours.

Biology 2. General Zoology.

A general survey of the animal kingdom introduced by a rapid consideration of the frog to acquaint the student with fundamental notions of structure and physiology. This is followed by a study of the animal cell with its nuclear, cell, and meiotic divisions. Here the laws of heredity are expounded and each evolved with the fruit fly as the specimen of exemplification. The study of the synoptic series of invertebrates is then taken up. Two lectures and two (two-hour) laboratory periods.

Four credit hours.

Biology 31. Genetics.

This course is designed to acquaint the student with the fundamentals of heredity and variation. Among the topics considered are: the history of genetics, the significance of the science, Mendelian inheritance, the chromosome theory, sex determination, linkage, interaction of factors, the chromosome complex, hybridization, and the practical applications of the science. Two lectures and two (two-hour) laboratory periods.

Four credit hours.

Biology 35. General Physiology.

This course is an introduction to the study of functions. It is concerned with the nature and methods of the physical structure and functions of protoplasm and cell functions in particular. This latter concerns such functions as permeability, contraction, excitation, conduction, and respiration. The laboratory work consists of basic experiments on these functions in the living plant and animal and involves extensive use of kymographic recording. Two lectures and two (two-hour) laboratory periods. Four credit hours.

Biology 41. Comparative Anatomy.

This course is a comparative study of vertebrate anatomy, considering the various systems of organs of the vertebrate body and tracing their evolution through the different classes of vertebrates. Structure is constantly correlated with function. Laboratory work is based upon the systemic study and dissection of the amphioxus, dogfish, skate, necturus, turtle or pigeon, and cat or rabbit. Two lectures and two (two-hour) laboratory periods.

Four credit hours.

Biology 43.1, 43.2. General Biology.

This course aims to acquaint the student with the fundamental structure and functions of living things. It begins with a consideration of the Cell Theory and of the cell as the structural and functional unit of plant and animal life. This is followed by a study of selected types of the main groups of plants and animals, culminating with the general anatomy and physiology of the seed plant and the frog. Special attention is given in the lectures to the applications of biological knowledge to the human race, particularly in connection with the discussion of such topics as parasitism, infection and immunity, organic evolution and heredity. Two lectures and one (two-hour) laboratory period.

Six credit hours.

Biology 44. Mammalian Anatomy.

This course provides a detailed study of the rabbit, stressing the skeleton and other anatomical features. Two lectures and two (two-hour) laboratory periods.

Four credit hours.

Biology 45. Mammalian Physiology.

This course complements the course in Mammalian Anatomy. It is designed to bring out the functions of the various organs and systems studied in the anatomy course. One lecture and one (two-hour) demonstration period.

Two credit hours.

Biology 61. Vertebrate Embryology.

A study of the developmental anatomy of vertebrates from the early history of the gametes to the stage of growth exemplified in the 10 mm. pig. Fertilization and segmentation through the formation of the three germ layers are studied in the ascaris, sea urchin, amphioxus, and frog. A detailed consideration of the chick embryo from the primitive streak through the 72-hour stage then follows, and the course is concluded with a thorough study of the 10 mm. pig. Two lectures and two (two-hour) laboratory periods.

Four credit hours.

COURSES IN BIOLOGY

Biology 62. Vertebrate Histology.

This course is a microscopic study of the anatomy of the vertebrates, beginning with a review of the fundamental facts of cellular structure, as treated in Biology 2. Following this is a detailed study of the four normal types of adult tissues: epithelium, connective, muscular, and nervous tissues. The course concludes with an analysis of the various tissue combinations as illustrated in the organs and systems of the vertebrate organism. The necessary correlation between microscopic structure and function is indicated, especially in the latter third of the course. Two lectures and two (two-hour) laboratory periods.

Four credit hours.

Biology 63. Microtechnique.

This course supplements the course in Vertebrate Histology. It includes the study and practical application of the paraffin, celloidin, and freezing methods of preparing tissues for microscopic examination. A number of the more common and specific stains and staining methods are then considered and applied. A certain number of well prepared slides is required of each student. Two (two-hour) laboratory periods.

Two credit hours.

DEPARTMENT OF CHEMISTRY

Professors Fiekers (Chairman), Baril, Charest, Van Hook; Associate Professor Tansey; Assistant Professor Martus.

Chemistry 11.1. General Inorganic Chemistry I.

A study of the fundamental theories and general laws of chemistry is made. Subatomic and kinetic molecular structure of matter is emphasized. The periodic table of the elements is introduced with sufficient descriptive chemistry to balance theory. Fundamental chemical calculations are practiced and experiments of a quantitative nature are stressed in laboratory. Required for science and pre-medical courses. Two lectures and two (two-hour) laboratory periods.

Four credit hours.

Chemistry 11.2. General Inorganic Chemistry II.

This course is a continuation of Chemistry 11.1. Chemical equilibrium, the chemistry of solutions, ionization, oxidation and reduction are emphasized. For more descriptive matter, the non-metals are first studied and then the remaining metals. Laboratory work is culminated in a brief introduction to qualitative analysis for anions by semi-micro methods. Required for science and pre-medical courses. Two lectures and two (two-hour) laboratory periods. Prerequisite: Chem. 11.1.

Four credit hours.

Chemistry 12. Chemical Problems.

This course supplements Chemistry 11.1 and 11.2 and initiates the beginner in chemistry into the methods of solving problems in the application of chemical principles. Required of students majoring in chemistry. Two lectures (with assignment of problems). Prerequisite: Chem. 11.1 or 13.1.

Two credit hours.

55

Chemistry 13.1. General Inorganic Chemistry I.

This course is the same in content as Chemistry 11.1. Required of all students majoring in chemistry. Three lectures and two (two-hour) laboratory periods.

Four credit hours.

Chemistry 13.2. General Inorganic Chemistry II.

This course is the same in content as Chemistry 11.2. Required of all students majoring in chemistry. Three lectures and two (two-hour) laboratory periods. Prerequisite: Chem. 13.1.

Four credit hours.

Chemistry 21.1. Analytical Chemistry I.

The laboratory work in this course is largely volumetric in nature and involves exercises in neutralization precipitation, oxidation and reduction. Certain determinations are checked by gravimetric and other procedures. Lectures develop the theory for this work along with other analytic theory that is common to both quantitative and qualitative analysis. This helps to integrate the course with the qualitative analytic part of the following one into a unified treatment of analytical chemistry. Required of all students majoring in chemistry. Two lectures and two (three-hour) laboratory periods. Prerequisite: Chem. 11.2 or 13.2.

Four credit hours.

Chemistry 21.2. Analytical Chemistry II.

This course is a continuation of Chemistry 21.1. Laboratory work in the first half of this course stresses analysis by gravimetric methods, followed by special analyses, such as electrodeposition, the analysis of limestone, pH determinations, the Kjeldahl nitrogen determination and the determination of carbon in steel. Laboratory exercises for the latter half of the course deal with semi-micro qualitative analysis for metallic ions. Required of students majoring in chemistry. Two lectures and two (three-hour) laboratory periods. Prerequisite: Chem. 21.1.

Four credit hours.

Chemistry 31. Qualitative Analysis. — Semi-Micro.

Lectures deal with the chemistry of analytic reactions and put emphasis on the development and application of the laws of equilibrium and solution. Laboratory work includes analysis for both anions and cations. Required of pre-medical students. Two lectures and two (two-hour) laboratory periods. Prerequisite: Chem. 11.2 or 13.2.

Four credit hours.

Chemistry 32. Quantitative Analysis.

In this course the elements of gravimetric and volumetric analysis are taught with emphasis on the latter. Neutralization, pH determination, oxidation and reduction, applications of the solubility product principle and the Kjeldahl determination of nitrogen are included in the laboratory exercises. Required of pre-medical students. Two lectures and two (two-hour) laboratory periods. Prerequisite: Chem. 11.2 or 13.2. Four credit hours.

Chemistry 33. Glass Practice.

Facilities are available in the chemistry department at all times so that the student may practice glass blowing with only informal instruction from the

staff. A more formal optional course is offered in those years when sufficient interest and numbers warrant such a course. This course is advised for students majoring in chemistry and physics. Course enrollment is limited to eight students. Exhibits of glassware from various American manufacturers complement the collection of glassware already on hand. Seminar, lecture or demonstration one hour per week. Laboratory practice, four hours per week.

One credit hour per semester.

Chemistry 41.1, 41.2. General Chemistry.

This course intends to give students, who are not otherwise preoccupied with science, an insight into the material make-up of the world about them. It ranges from sub-atomic particles through atoms, molecules and the modern "giant molecules" that have been emphasized in plastics, synthetic fabrics and textiles as well as in living tissue. Descriptive matter for this course is chosen from economic substances such as sulfuric acid, petroleum, coal tar, rubber, plastics, foods, vitamins, hormones and steel. The laboratory part is selected from the traditions of general chemical laboratory instruction at the start of the course; towards its conclusion, however, a survey of chemical methods of analysis, instrumentation, organic and physical chemistry is made. Demonstrations are used; the scientific method is emphasized. Two lecture hours with demonstration and one (two-hour) laboratory period.

Six credit hours.

Chemistry 51.1. Physical Chemistry I.

A study is made of the fundamental principles and methods by which the behavior of matter in its various states and forms is interpreted. A study of gases, liquids and solids, molecular constitution, thermochemistry, thermodynamics and the quantitative laws of solution is undertaken. Laboratory training in this and the two following courses is designed to test the more important physico-chemical laws; to inculcate physico-chemical technique; and to develop the habit of quantitative interpretation of such phenomena. Training in organic chemistry is a desirable prerequisite. Required of all students majoring in chemistry. Three lectures and five hours of laboratory. Prerequisites: Math. 22.1, 22.2, Physics 1, 2, Chem. 21.1 or 32.

Four credit hours.

Chemistry 51.2. Physical Chemistry II.

This is a continuation of Physical Chemistry I. Homogeneous and heterogeneous equilibria, reaction knetics, electrical conductance, electromotive force and ionic equilibria are studied. Selected topics from chemical thermodynamics, quantum theory, photochemistry and particle structure are included. Required of all students majoring in chemistry. Training in organic chemistry is a desirable prerequisite. Three lectures and five hours of laboratory. Prerequisite: Chem. 51.1.

Four credit hours.

Chemistry 51.3. Physical Chemistry III.

This course deals with special topics in advanced physical chemistry with emphasis on Colloidal Chemistry. Two lectures and two (two-hour) laboratory periods. Required of all chemistry majors. Prerequisites: Chem. 51.1 and 51.2.

Four credit hours.

Chemistry 52.1. Advanced Organic Chemistry I.

This course is comprised essentially of semi-micro qualitative organic analysis. The laboratory part includes the identification of the following unknown types: solid, liquid, liquid mixture, solid mixture, drug, dye, alkaloid and a commercial product. In preparation for a part of the work in second semester, lectures are also given on semi-micro, ultimate and functional group, quantitative organic analysis. For this course, a reading knowledge of scientific German is highly desirable. Required of all students majoring in chemistry. Two lectures and four hours of laboratory. Prerequisites: Chem. 21.2 or 31, and 61.2.

Four credit hours.

Chemistry 52.2. Advanced Organic Chemistry II.

This part of the course is essentially comprised of a study of organic preparations. Oxidation, reduction, halogenation, the name preparations: Grignard, Wurtz and Friedel-Crafts etc. are studied. In laboratory, a number of examples of these syntheses are undertaken and an acquaintance with elemental quantitative analysis is established in practice. Required of all students majoring in chemistry. Two lectures and four hours of laboratory. Prerequisites: Chem. 52.1.

Four credit hours.

Chemistry 61.1. Organic Chemistry I.

This course consists of introductory lectures on the fundamentals of the science with emphasis on structure, isomerism, homology, nomenclature, synthesis, reactions, and other properties of organic compounds in their application to medicine and industry. Aliphatic hydrocarbons and cycloparaffins are studied along with their derivatives such as alkyl halides, alcohols, glycols, glycerols, sulfur compounds, ethers, aldhydes, ketones, acids and their derivatives, fats, oils and waxes. In laboratory synthesis is emphasized for all. Some attention is given, however, with pre-medical majors to reactions in qualitative organic chemical analysis. For this course training in qualitative and quantitative chemical analysis is desirable. Required of chemistry and pre-medical majors. Three lectures and five hours of laboratory. Pre-requisite: Chem. 11.2.

Chemistry 61.2. Organic Chemistry II.

This course is a continuation of Organic Chemistry I. Organic nitrogen compounds, carbonic acid derivatives, stereoisomerism, the carbohydrates and the special reactions of the carbonyl group in theory and in synthesis are here studied. Coal tar derivatives are given special attention for about half of the semester. Alkaloids, hormones and vitamins are treated in detail. In laboratory synthesis is emphasized for all; attention is given to qualitative organic chemical reactions in the case of pre-medical students. Required of chemistry and pre-medical majors. Three lectures and five hours of laboratory. Prerequisite: Chem. 61.1.

Chemistry Seminar.

Once a week junior and senior chemistry majors meet with the staff and graduate students in seminar. A public exposition of the Bachelor thesis is required of all senior students who major in chemistry.

For information on graduate courses in chemistry, refer to page 90.

DEPARTMENT OF THE CLASSICS

Professors Izzo (Chairman), AHEARN, BEAN, FORAN, HART; Associate Professors Kelly, McGrady, V. de P. O'BRIEN, SAMPEY; Assistant Professor Yavis; Instructor Dork.

I. GREEK

Greek 1, 2. Elementary Greek.

Orthography, oral reading and memory of short Greek sentences. Study of grammar with results tested in composition work. Six credit hours.

Greek 5. Advanced Greek.

Selected readings from the Odyssey of Homer; Plato's Apology with reference to the Crito and Phaedo. Study of Greek epic poetry and of Athenian culture, fifth century B.C.

Three credit hours.

Greek 6. Advanced Greek.

Selected writings of Euripides, Sophocles and Demosthenes. Study of the genesis of Greek drama and of Athenian culture from 405 B.C. to 340 B.C.

Three credit hours.

Greek 17. Intermediate Greek.

Study of Plato's Apology and Selections from Herodotus.

Three credit hours.

Greek 18. Intermediate Greek.

Study of Homer's Iliad and selections from Aeschylus, Sophocles and Euripides.

Three credit hours.

Greek 39. Advanced Greek.

Study of the Oedipus Tyrannus of Sophocles in the original; Oedipus Coloneus and Antigone in translation.

Three credit hours.

Greek 40. Advanced Greek.

A careful reading of the "De Corona" of Demosthenes, with a study of the political background of the period.

Three credit hours.

Greek 62. Advanced Greek.

Study of the dialogues of Plato: Phaedrus, Ion, Gorgias and Symposium.

Selections from the Republic and Laws.

Three credit hours.

Greek 63. Advanced Greek.

A study of the philosophical theories of Aristotle as expressed in his Politics and Ethics.

Three credit hours.

Greek 64.1. The Poetics of Aristotle.

Theory of poetry and fine arts. "Mimesis" as the common principle of the arts. Psychological and historical origins of poetry. Principles of Comedy.

Three credit hours.

Greek 64.2. The Poetics of Aristotle.

Definition and elements of Tragedy. Principles of Epic Poetry.

Three credit hours.

II. LATIN

Latin 1. Cicero, Virgil and Catullus.

A study of life and position of Cicero in Roman letters and politics. The reading of the Virgil's Aeneid and selected lyrics of Catullus.

Four credit hours.

Latin 2. Horace and Livy.

The reading of selections from Horace, and a study of his philosophy of life and his influence on English literature. The reading of selections from Livy.

Four credit hours.

Latin 1A, 2A.

A course for those who have had two years of high school Latin. The first semester is devoted to a review of grammar, composition and the First Catiline of Cicero. The second semester is devoted to a study of Cicero, Virgil, Horace and Catullus.

Six credit hours.

Latin 21. Cicero and Tacitus.

The study of Tacitus as a stylist. A special study of Oratorical Composition and Analysis is made by a thorough study of the principles of Oratorical Composition as exemplified in Cicero's "Pro Lege Manilia," or "Pro-Roscio Amerino" or "Pro Ligario". Prerequisite: Lt. 2. Three credit hours.

Latin 22. Cicero, Horace, Juvenal.

A comparative study of the Latin Satirists, Horace and Juvenal, and their influences on modern literature. A further study of the principles of Oratorical Composition is made by a thorough analysis of Cicero's "Pro Milone." Prerequisite: Lt. 21.

Three credit hours.

Latin 61. Classical Background of English Literature.

The influence of Roman drama upon the drama of the Tudor and Elizabethan age. This course will read, in Latin and in English, Seneca, Plautus and Terence. Prerequisite: Lt. 22.

Three credit hours.

Latin 62. Classical Background of English Literature.

This course will read selected passages from Horace, Catullus and Ovid. It will make a parallel study of the ode, the satire, the elegiac verse in Milton, Jonson, Pope and Dryden. Prerequisite: Lt. 22.

Three credit hours.

Latin 63. A survey of Later Latin Literature.

Reading and criticism of pagan and Christian authors from the second to the fifth centuries A.D. Prerequisite: Lt. 22.

Three credit hours.

Latin 64. A survey of Later Latin Literature.

Reading and criticism of authors from medieval and modern Latin literature, sacred and secular. Prerequisite: Lt. 22.

Three credit hours.

DEPARTMENT OF EDUCATION

Professor Dowling (Chairman), Associate Professors Dunigan, J. R. Sullivan.

Education 1. The History of Education.

The purpose of this course is to promote a clearer understanding of modern tendencies in education by a careful study of the problems, practices and ideals of the past.

Scope: A study of educational agencies of ancient times and continued through the Middle Ages and the Renaissance; a study of the growth of national systems, of popular education and the trend of education in the United States.

Three credit hours.

Education 31. General Methods of Teaching. (Secondary School Methods).

The purpose of this course is to give the student a clear concept of the principles that govern teaching procedure so that he may better direct and stimulate learning activities.

Scope: A brief review of the salient characteristics of the learning process; consideration of general and specific objectives; direction of habit formation and right conduct; aids to the acquisition and use of knowledge; recognition and treatment of individual differences; measurement of achievement; analysis and interpretation of results.

Three credit hours.

Education 32. History of Education in the United States.

A study of the schools of Colonial America. The organization and development of public and private systems of education in the United States to the present day.

Three credit hours.

Education 51. Educational Psychology.

The purpose of this course is to acquire a working knowledge of those fundamental elements of psychology that relate to the educative process.

Scope: The course embraces a systematic study of the educable being, his native and acquired tendencies; economy in learning; the process of acquiring ideas and ideals; general intelligence and its measurements; significance of the whole in respect to classroom procedure. Three credit hours.

Education 52. Principles of Guidance.

This is a basic course to familiarize students of education with the principles of guidance requisite for a teaching career. It includes an analysis of the academic, physical, psychological and social factors of human nature in relation to self-realization and life in a democratic community.

Three credit hours.

Education 53. Advanced Empirical Psychology.

Empirical study of the nature of life, the fundamental grades of life, as well as the nature and properties of sensation. Modern theories of Descartes, Locke, Berkeley, Hume, Mill, Kant, Spencer, Behaviorism, Instrumentalism, Darwinism, Lamarckianism, together with the Scholastic theory.

Two credit hours.

Education 54. Advanced Rational Psychology.

An empirical study of intellectual life; the intellect; its nature; the universal idea; the theories of Plato, Descartes, Spinoza. Origin of the idea; empiricism; sensism; positivism; scholastic theory. The nature of the will; freedom of the will.

Nature and substance of the human soul; false theories of the Ego rejected; relations of soul to body; psycho-physical activities of man; creation of human soul; refutation of anthropological evolution.

Four credit hours.

Education 56. Special Ethics.

Man's duties to his Creator, self and neighbor; rationalism; indifferentism.

The right of ownership; Communism; Socialism; various theories of property.

The nature and end of society; Capital and Labor relations.

Origin and nature of civil society. Rights and duties of parents.

International Ethics; nature and justice of war; pacifism; arbitration.

Four credit hours.

Education 61. Principles of Secondary Education.

Evolution of the modern high school in the changing social and economic life in America; enrollment; aims, objectives, and functions of secondary education in a democracy; relations to elementary education and higher education; the curriculum and methods of teaching. A background for other courses in education, particularly those relating to secondary education.

Three credit hours.

Education 62. Special Methods in Teaching English.

The purpose of this course is to aid those who intend to specialize in the teaching of English.

Scope: A detailed study of the aim and content of an approved course of English in secondary schools; methods of teaching oral and written expression; principles of appreciation, memory and review as they relate to English literature; practice in working out lesson plans for specific assignments in English.

Three credit hours.

Education 64. Philosophy of Education.

The laws of education are the laws of life. The future teacher needs a thorough grasp of the dynamic philosophies molding world action. This course evaluates the philosophies guiding American education, discusses the reasons for the curricula offered in American school systems, and attempts to solve the pivotal problems of democratic life as encountered in school programs.

Three credit hours.

Education 70. Educational Measurements.

Purpose: To give the student a ready, working knowledge of the character, extent and value of objective measuring devices in education and to acquaint him with various techniques of their administration.

Scope: The nature of educational measurements; characteristics of a good test, principles of test-construction; norms of pupil achievement in secondary school subjects; statistical methods of handling data; interpretation of results.

Three credit hours.

DEPARTMENT OF ENGLISH AND FINE ARTS

Professors McCann (Acting Chairman), Bean, Connors, Cummings, Drumm, Foran, Gallagher, Izzo, Mears; Associate Professors Delaney, Donovan, Lahey, V. de P. O'Brien, Sampey; Assistant Professor Madden; Instructors Dorr, Green.

English 3.1. Prose and Poetry.

An introduction to the study of literature; its characteristics, qualities and relation to the other fine arts; the elements and divisions of literature; prose and poetry. This course develops with a specific study of poetry, its nature and province; distinctive features of poetry, poetic diction, emotional, imaginative and thought elements of poetry. Frequent practice in composition is required.

Three credit hours.

English 3.2. Poetry.

This course is a continuation of English 3.1, treating of poetic forms; epic, lyric and dramatic poetry with critical appreciation and reading. Frequent practice in composition is had.

Three credit hours.

English 22.1. Rhetoric and Shakespeare.

The theory and practice of persuasive expression constitute the basic content of this course. It embraces the precepts and methods of exposition, of constructive argumentation, of refutation of motivation. Through the study and analysis of prominent speeches, past and present, and through exercises in individual composition these precepts and methods are put into practice. The study of selected tragedies of Shakespeare for their literary and dramatic power of expression supplements this course.

Three credit hours.

English 22.2. Rhetoric and Shakespeare

This course is a continuation of English 22.1. It consists in a more detailed analytic and stylistic study of oratorical masterpieces in English and American political history. It continues the practice of composition and of oral expression, and adds, as in the previous course, a study of other tragedies of Shakespeare.

Three credit hours.

English 38.1, 38.2. English Literature of the Seventeenth Century. Donne and metaphysical poetry. The Cavalier and Caroline poets: Carew, Suckling, Lovelace, Herrick, Herbert, Vaughan, Crashaw, Traherne. Later poets: Waller, Marvell, Cowley. Selected prose of Bacon, Burton, Walton, Bunyan, Evelyn, Pepys. Milton's poetry and prose. Dryden. The comedy of manners: Etherge, Wycherly, Vanbrugh, Congreve, Farquhar.

Six credit hours.

English 39.1, 39.2. English Literature of the Eighteenth Century. Poetry: Pope, Prior, Swift, Gay, Thomson, Shenstone, Young, Gray, Collins. Prose: Swift, Defoe, Addison, Steele, Gay. The novel: Richardson, Fielding, Smollett, Sterne. The Gothic Romance: Walpole, Mrs. Radcliffe.

Poetry: Johnson, Goldsmith, Cowper, Chatterton, Crabbe, Blake, Burns. Prose: Johnson, Burke, Goldsmith, Sheridan, Boswell, Chesterfield, Walpole. Six credit hours.

English 40. English Literature of the Nineteenth Century from the Lyrical Ballads to the Death of Scott, 1798-1832.

The general characteristics of the romantic movement. Wordsworth, Coleridge, Southey, Scott. The essayists: Lamb, Hazlitt, Hunt, Landor, DeQuincey, Byron, Shelly, Keats.

Three credit hours.

English 41.1, 41.2. A Survey of English Literature.

The Anglo-Saxon period; Chaucer; the Renaissance; the age of Milton; the Classical period; the Romantic period; the Victorian era.

Six credit hours.

English 42.1, 42.2. World Literature.

Greek and Roman Classicism: Homer, Sophocles, Euripides, Plato, Virgil, Plutarch. Middle Ages: Song of Roland, Nibelungelied, Tristan and Iseult, Divine Comedy, Canterbury Tales. Renaissance in Europe: Don Quixote. Renaissance in England: Romeo and Juliet, Hamlet, Bacon's Essays, Paradise Lost, Lyric Poetry. Neo-Classicism: Moliere, Racine. Romanticism and the Modern World; Faust, Tolstoy, Ibsen — and others. Reading evaluation, class discussion of World Masterpieces and Authors, their importance and influence.

Six credit hours.

English 61.1, 61.2. Victorian Literature (excepting the novel).

Tennyson, Browning, Elizabeth Barrett Browning, Arnold. The prose of Carlyle, Macaulay, Newman, Arnold, Ruskin, Pater. The Pre-Raphaelite Group: D. G. Rossetti, Christina Rossetti, Morris Swiwnburne. The poetry of Fitzgerald, Clough, Patmore, James Thomson, Francis Thompson.

Six credit hours.

English 62. The English Novel in the Nineteenth Century.

Jane Austen, Scott, Dickens, Thackeray, Trollope, George Eliot, Charlotte Bronte, Emily Bronte, Hardy, Meredith, Henry James, Stevenson.

Three credit hours.

English 63.1, 63.2. American Prose. 1620 to 1900.

A study of non-fictional prose from early Colonial and Revolutionary times to the year 1900. It is not a survey course. Five or six authors will be studied each semester. Amongst the writers to be considered will be Bradford, Winthrop, the Mathers, Franklin, Paine, Edwards, Jefferson, Emerson, Thoreau, Brownson, Brook Farm and the Transcendentalists, Poe the Critic, Lincoln, Parkman, Henry Adams and others.

Six credit hours.

English 64.1, 64.2. American Poetry. 1800 to 1900.

A critical study of the poetry of such authors as Poe, Longfellow, Emerson, Lowell, Whitman, Dickinson, Lanier, Guiney, Tabb, Crane, Moody, Millay and others.

Six credit hours.

English 66.1, 66.2. American Novelists and Short Story Writers to 1900.

This course includes a detailed and thorough reading of authors like C. Brown, Poe, Hawthorne, Melville, Twain, Harte, James, Wharton, London, Norris, Crane, Mitchell, Bierce, Crawford, Glasgow, Cather and others. Five or six authors will be selected for each semester's work.

Six credit hours.

English 68.1, 68.2. American Dramatists and Poets since 1900.

This course includes a study of dramatics like Fitch, O'Neill, Anderson, Rice, Sherwood, Wilder and Saroyan. It will include poets like Robinson, Frost, Eliot, Lindsay, Sandburg, Jeffers, Stevens and Cummings.

Six credit hours.

English 69.1, 69.2. American Writers since 1900.

This course includes a reading and study of authors like Dreiser, Sherwood, Anderson, Lewis, Hemingway, Lardner, Huneker, Mencken, Fitzgerald, Steinbeck, Wolfe, Faulkner, Wilder, Marquand and others.

Six credit hours.

English 70.1. Modern British and Irish Literature I.

The Pre-Raphaelite Brotherhood. The influence of Ruskin and Pater. French influences. The Aesthetic School; Fin du Siecle; "art for art's sake". The Realists. The New Drama.

Three credit hours.

English 70.2. Modern British and Irish Literature II.

The Irish Renaissance. The Abbey Theatre. Georgian Poetry. The Twentieth Century Novel. New trends and experiments.

Three credit hours.

English 75.1, 75.2. Shakespeare.

A careful study of the principal plays with special emphasis on Shake-speare's development as a dramatist. Analysis and study of the outstanding characters and a consideration of the historical and theatrical background of the plays. Lectures, readings and written papers.

Six credit hours.

English 80.1. Chaucer.

The aim of this course is to give the student a knowledge of Chaucer, the great literary artist and poet. It includes a study of the background of the author. It requires a reading, study and discussion of "The General Prologue"; "The Knight's Tale"; "The Prioress's Introduction, Prologue and Tale"; "The Second Nun's Prologue and Tale"; "The A.B.C." poem.

Three credit hours.

English 80.2. Chaucer.

This is a continuation of English 80.1. It includes a reading and discussion of "The Wife of Bath's Prologue and Tale"; "The Franklin's Prologue and Tale"; "The Pardoner's Prologue and Tale"; "The Nun's Priest's Prologue and Tale".

Three credit hours.

English 81.1. Creative Writing: The Short Story.

This course provides advanced training in the short story.

Three credit hours.

English 81.2. Creative Writing: The One-Act Play.

This course provides advanced training in the one-act play with special attention given to problems of plotting characterization.

Three credit hours.

English 82. Effective Speaking.

This course aims to give self-confidence and poise to the student, by practice, after he has learned the theory of various forms of speech. It includes a study of voice production and control as well as platform presence and manner. Assignments are given on presentation of topics for group discussions and preparation of original addresses for special occasions in public. Classes are limited to twenty students.

Three credit hours.

COURSES IN FINE ARTS

Fine Arts 1.1. Art Appreciation and History.

The art of Egypt, the Tigris-Euphrates Valley and Crete. Sculpture and architecture of Greece and Rome. Byzantine and Romanesque art. The Middle Ages. Monastic contributions. Gothic art and architecture.

Three credit hours.

Fine Arts 1.2. Art Appreciation and History.

Flemish painting. Dutch Masters. Italian early and high Renaissance. Baroque period. The Renaissance in France, England, Germany and Spain.

Three credit hours.

Fine Arts 2.1. Art Appreciation and History.

French painting from the Revolution to 1880. Nineteenth Century art and architecture in England, Germany and the United States.

Three credit hours.

Fine Arts 2.2. Art Appreciation and History.

Modern French art. The Refuses. Impressionism. The Fauvres. Modern schools and experiments. Modern American painting and architecture.

Three credit hours.

Fine Arts 3.1, 3.2. Appreciation of Music.

A general cultural course, in lecture form, tracing the development of music from early civilization to modern times, studied through history and analysis. This course is designed specifically to give the lay-musician and music-lover a cultural background with which to enjoy, understand and appreciate music in its many forms and phases.

Six credit hours.

Fine Arts 4.1, 4.2. Harmony.

An introduction to harmony; a study in the construction and uses of chords; elementary composition and a background for instrumentation and arranging; a cultural course to aid in the harmonic analysis of music.

Six credit hours.

DEPARTMENT OF HISTORY AND POLITICAL SCIENCE

Professors P. J. HIGGINS, LUCEY, MEAGHER; Associate Professors G. A. HIGGINS (Chairman), KING, MCKENNA, MCNALLY; Assistant Professors GLAVIN, GRATTON, REIDY.

Only the basic courses for majors in History and Political Science are listed below as required. Some of the upper division courses are also required, depending on the student's interest in the field of History and Political Science. Hence, all students majoring in History or Political Science must consult with the Chairman of the Department before the final selection of their electives and they must have his approval for the courses selected. The required courses for B.A. students electing to major in History or Political Science are somewhat different from those indicated below. These students should consult with the Chairman of the Department for their required courses.

HISTORY COURSES

History 2.1. European History from Christian Antiquity to 900.

Required of Freshmen majoring in Arts (non-pre-medical), Education, History and the Social Sciences.

Three credit hours.

History 2.2. European History from 900 to 1648.

Required of Freshmen majoring in Arts (non-pre-medical), Education, History and the Social Sciences.

Three credit hours.

History 3.1. A survey of Western Civilization from Christian Antiquity to 1648.

Required of students majoring in Arts (pre-medical), Business Administration, Biology, Chemistry, Mathematics and Physics. Three credit hours.

History 3.2. A survey of Western Civilization Since 1648.

Required of students majoring in Arts (pre-medical), Business Administration, Biology, Chemistry, Mathematics and Physics. Three credit hours.

History 4. Historical Methodology.

The science of history and its relation to the social sciences; method of historical research and criticism; historians and historical writings. Required of all students majoring in History.

Three credit hours.

History 15. The History of the United States from the Colonial Period to 1865.

A study of the political, social, economic and cultural history of the United States from the colonial period to the end of the Civil War. Lectures, assigned readings, reports, term paper. Required of all students majoring in History.

Three credit hours.

History 16. The United States Since the Civil War.

A study of the political, social, economic and cultural history of the United States since the Civil War. Lectures, assigned readings, reports, term paper. Required of all students majoring in History.

Three credit hours.

History 17. The United States in the Twentieth Century.

Some of the salient political, social, economic and religious problems and trends of the United States are selected for investigation and appraisal.

Three credit hours.

History 18. Economic History of the United States.

This course is offered by the Department of Economics as listed under Economics 22.

Three credit hours.

History 22.1. The Political and Cultural History of Europe: 1648-1815.

Required of Sophomores majoring in Arts (non-pre-medical), Education, History and Social Sciences.

Three credit hours.

History 22.2. The Political and Cultural History of Europe Since 1815.

Required of Sophomores majoring in Arts (non-pre-medical), Education, History and Social Sciences.

Three credit hours.

History 41. Medieval Political and Economic Institutions.

A study of the political and economic ideas and institutions of the High Middle Ages: origin and growth of representative government and parliaments; merchant and craft guilds; social milieu.

Three credit hours.

History 42. Medieval Universities, Philosophy and Literature.

A study of the Twelfth Century Renaissance; origin; growth and curricula of the Universities; Scholasticism; the romance languages and literature.

Three credit hours.

History 51. Tudor England: 1485-1603.

A one semester upper division course. Weekly discussion on reading assignments.

Three credit hours.

History 52. Stuart England: 1603-1715.

A one semester upper division course. Weekly discussion on reading assignments.

Three credit hours.

History 62.1, 62.2. Europe in the Nineteenth Century.

Napoleonic Era; Congress of Vienna; Political and Social Revolutions; Unification of Germany and Italy; Russia; the British Empire; Social Theories.

Six credit hours.

History 65.1, 65.2. Europe since 1914.

The causes of World War I; the Versailles Treaty; the League of Nations; Russia and Bolshevism; Nazism; Fascism; the Far Eastern Situation; the Spanish War of 1936; World War II.

Six credit hours.

History 66.1, 66.2. Diplomatic History of the United States.

A study of the foreign relations and policies of the United States; the history of our relations with Europe, Latin America and Canada, and the Far East.

Six credit hours.

History 67.1, 67.2. History of Latin America.

A study of colonial and national histories of Latin American Republics.

Six credit hours.

History 68.1, 68.2. History of American Civilization.

A study of the roots of the civilization of the United States; inheritance of Western culture; colonial life; political institutions; economic and social problems of the nineteenth century; problems of modern America.

Six credit hours.

History 71. The Far East in Modern Times.

A survey of the leading political, social and economic history and modern trends of the Far East: China, Japan, Philippine Islands, India, Pakistan, Burma, Indo-China, Malaya and Indonesia. The emphasis is on China and Japan.

Three credit hours.

History 72. Pro-Seminar in History.

Research with individual reports and class discussion on the subject of the senior thesis or any selected topic. Students enrolled in this course must receive approval of the Department.

Two or three credit hours.

History 73. Reading Course in History and Government.

Reading of a selected list of documentary and authoritative works under direction with individual reports and discussion. Students enrolled in this course must receive approval of the Department.

Three credit hours.

POLITICAL SCIENCE COURSES

Political Science 11.1, 11.2. An Introductory Course in Political Science.

A study of the nature and functions of the State; types of government; development and essentials of representative government; constitutional government; problems of administration. Required for a major in political science.

Six credit hours.

Political Science 12.1, 12.2. American Government.

An examination of the origin of the federal republic and the content of the Constitution of the United States; national, state and municipal government; modern problems. Required for a major in political science.

Six credit hours.

Political Science 21.1, 21.2. History of Political Thought.

An examination of the political ideas and theories of the pre-Christian writers, the early Christian era, of the scholastics, moderns and contemporaries.

Six credit hours.

Political Science 22.1, 22.2. Comparative Modern Governments. A study and comparison of modern governments. Six credit hours.

Political Science 23. American Political Parties.

The function of political parties and the history of political parties in the United States.

Three credit hours.

Political Science 24. The U.S.S.R.

A study of Soviet Russia offered by the Department of Sociology in the course listed under Sociology 70.

Three credit hours.

Political Science 31. Constitutional and Legal History of England.
Origin and development of the parliamentary system and the common law.

Three credit hours.

Political Science 32.1, 32.2. Constitutional History of the United States.

An examination of the origin and content of the Constitution, of the nature of the federal republic and the presidential system, of the development of the Constitution and of current constitutional problems. Prerequisite: PS 12.1.

Six credit hours.

Political Science 33.1, 33.2. History of the United States Supreme Court.

A study of the Court in the history of the nation, of its important decisions and the development of constitutional law.

Six credit hours.

Political Science 42.1, 42.2 International Relations.

A study of the basic factors in international relations; the multi-state system; power factors; geography, population, natural resources; economic development and system; political system; foreign policy; diplomacy; atomic problems; international organizations; the United Nations, achievements and problems; World Government.

Six credit hours.

Political Science 43.1, 43.2. Diplomatic History of the United States.

A description of this course will be found under History 66.

Six credit hours.

Political Science 44. Inter-American Problems.

The problems and progress of international relations of the United States

and the other nations of the Western hemisphere in the twentieth century.

Prerequisite: Hs 66 or 67.

Three credit hours.

Political Science 51. Public Administration.

The principles and problems of public administration; organization of public service; civil service; relationship of government to industry, finance, agriculture, labor, transportation, housing and health. Three credit hours.

Political Science 52.1, 52.2. Government in Economic Life.

A study of the philosophical basis and salient problems of governmentbusiness relationship. This course is offered by the Department of Economics under Economics 80.1, 80.2.

Six credit hours.

Political Science 61. Pro-Seminar in Political Science.

Research with individual reports and class discussion on the subject of the senior thesis or any selected topic. Students enrolled in this course must receive approval of the Department.

Two or three credit hours.

DEPARTMENT OF MODERN LANGUAGES

Professors O'HARA (Chairman), BOURSY, BOWEN, CARROLL, L. E. FITZGERALD, LEAVEY; Associate Professors Flynn, McNerney; Assistant Professors Cordeiro, Noble.

1. FRENCH

French 10.1, 10.2. Elementary French.

This course aims to equip the students with a succinct and useful knowledge of the essentials of French grammar, giving him the ability both to write, read and speak simple idiomatic French, with daily drill in phonetics.

Six credit hours.

French 15.1, 15.2. Intermediate French.

A thorough review of French grammar is made through reading, composition, oral and aural practice. The required reading aims at an intensive study of selected Short Stories. Prerequisite: Fr. 10 or two years of French in an accredited high school or satisfactory grade in placement examination.

Six credit hours.

French 24.1, 24.2. Advanced French I.

In this course advanced composition and conversation give the student the opportunity to apply and to perfect his grammatical knowledge. The reading matter forms a survey of French civilization from its origins across the Middle Ages and the Renaissance through the 17th century. The course is given in French. Prerequisite: Fr. 15 or three years of French in an accredited high school or satisfactory grade in placement examination. Six credit hours.

French 32.1, 32.2. Advanced French II.

During the first semester more emphasis is given to composition than to conversation while acquainting the student with the social, philosophical and literary ideas of the 18th century. The second semester's work places greater emphasis on conversation while examining the poetry, novels, drama and ideas of the 19th century. The course is given in French. Prerequisite: Six credit hours. Fr. 24.

French 61.1, 61.2. Phonetics and Diction.

The aim of this course is to perfect the student's powers of oral ex-Six credit hours. pression. Prerequisite: Fr. 32.

French 62. French Novel in the Nineteenth Century.

The lives and works of the principal novelists of this century are studied and evaluated in relation to their contribution to the social, intellectual and moral life of their country and the world. Prerequisite: Fr. 32.

Three credit hours.

French 63. French Novel in the Twentieth Century.

The lives and works of the principal novelists of this century are studied and evaluated in relation to their contribution to the social, intellectual and moral life of their country and the world. Prerequisite: Fr. 32.

Three credit hours.

French 64.1, 64.2. The Modern Catholic Revival.

In this course the student views the impact of Catholic thought and action upon French literature and society from 1802 to date. Prerequisite: Six credit hours. Fr. 32.

French 65.1, 65.2. French Classicism.

The masterpieces of the French seventeenth century authors provide for this course a rich and varied subject matter of eminently formative value. Six credit hours. Prerequisite: Fr. 32.

II. GERMAN

German 10.1, 10.2. Elementary German.

First Semester. A thorough study of inflections and of essential elementary syntax; drill in easy German composition and the acquisition of a small fundamental vocabulary.

Second Semester. Rapid intensive review of inflections; thorough study of all fundamentals of syntax; practice in writing sentences and in oral composition to make clear the principles of inflection and construction,

and familiarize the student with their use; thorough and rapid reading and translation of German texts with particular attention to recognition of the vocabulary.

Six credit hours.

German 15.1, 15.2. Intermediate German.

First semester. Rapid and thorough review of all essentials of grammar; drill in German composition; special study of the more difficult points of syntax; thorough and rapid reading and translation of German texts with special attention to the grammar and constructions involved.

Second semester. Thorough and rapid reading and translation of German prose and poetry; translation from English into German; a study of the fundamentals of the formation, derivation, and composition of German words to the end of acquiring a sufficient vocabulary for sight reading and advanced study. Prerequisite: Gn. 10 or two years of German in an accredited high school or satisfactory grade in placement examination.

Six credit hours.

German 15 S.1, 15 S.2. Intermediate Scientific German.

This course is especially designed to fulfill the requirements of a reading knowledge of German for medical and scientific schools.

Review of all essentials of inflections and syntax; reading and translation of German texts and analysis of the grammar and constructions involved; a fundamental study of the formation derivation, and composition of German words with particular attention to the meaning of root words and to the meaning and influence of prefixes and suffixes.

A special study of syntactical points peculiar to scientific writings; reading of original German scientific texts. Prerequisite: Gn. 10 or two years of German in an accredited high school or satisfactory grade in placement examination.

Six credit hours.

German 24.1, 24.2. Advanced German Reading.

Reading and study of both prose and poetry of the various literary movements; outside reading assignments; special attention is given to developing a large reading vocabulary and rapid and easy reading of more difficult German. The course is largely conducted in German. Prerequisite: Gn. 15 or three years of German in an accredited high school or satisfactory grade in placement examination.

Six credit hours.

German 32.1, 32.2. Composition and Conversation.

Conducted entirely in German, this course is completely practical and presupposes a collateral knowledge of German grammar and vocabulary. The continuous writing of compositions in German is important and constitutes the preparatory part of the course, while the class periods fulfill in part the auditory and oral drill requirements. The ability of the student to understand, speak and write German reasonably well will be tested both orally and in writing by the members of the German Department at the termination of each semester. Prerequisite: Gn. 24.

German 61. Advanced Grammar and Language.

A thorough introduction to general linguistics. Beginning with phonology, the course presents a systematic and scientific study of German morphology with historical and comparative references; a lexical study through an analysis of the value and use of prefixes and suffixes, through derivation, formation and compounding of words and the resulting semantic variations; a comparative etymological study with special reference to English through the consonantal and vowel shifts, etc. Prerequisite: Gn. 24.

German 62. German Literary History.

This is a background course and presents a general connected survey of the developments of German culture and literature from its beginnings to today. For its earlier periods particularly, it is accompanied by selective illustrative readings in modern German translations. Prerequisite: Gn. 24.

Three credit hours.

III. SPANISH

Spanish 10.1, 10.2. Elementary Spanish.

Exercises in the rudiments of grammar and pronunciation, writing of simple English sentences into Spanish, drill in dictation of words and sentences, memory of common expressions of conversation, translation of selections from classical authors into idiomatic English.

Six credit hours.

Spanish 15.1, 15.2. Intermediate Spanish.

Review of the grammar, writing of English prose into Spanish, dictation of prose and poetry, practice in original compositions in Spanish; literary criticisms of the authors read. Prerequisite: Sp. 10 or two years of Spanish in an accredited high school or satisfactory grade in placement examination.

Six credit hours.

Spanish 24.1, 24.2. Advanced Spanish I.

The purpose of this course is to acquire a solid knowledge of idiomatic Spanish by the reading and imitation of Spanish authors. Precis writing is emphasized. Spanish is the language of the class. Prerequisite: Sp. 15 or three years of Spanish in an accredited high school or satisfactory grade in placement examination.

Six credit hours.

Spanish 61.1, 61.2. Spanish Novel of the Nineteenth Century.

Prerequisite: Sp. 24.2.

Six credit hours.

Spanish 62.1, 62.2. Composition and Conversation.

Prerequisite: Sp. 24.2.

Six credit hours.

Spanish 63.1, 63.2. Survey of Spanish Literature.

A general survey of Spanish Literature with attention to the literary characteristics of the several periods. The course embraces lectures, a critical study of representative texts in Spanish, and reports on collateral readings. This course is conducted entirely in Spanish. Prerequisite: Sp. 24.2.

Six credit hours.

DEPARTMENT OF NAVAL SCIENCE AND TACTICS

Captain GLICK, U.S.N. (Chairman), Lieutenant Commander WYMAN, U.S.N.R., Lieutenant Commander MILLAR, U.S.N.R., Major BATEMAN, U.S.M.C., Lieutenant LEGARE, U.S.N., Lieutenant MINGER, U.S.N., Lieutenant (j. g.) HASKELL, U.S.N.R.

The mission of the Naval Reserve Officers' Training Corps is to provide, by a permanent system of training and instruction in essential Naval subjects at civil educational institutions, a source from which qualified officers may be obtained for the Navy and the Marine Corps, and the Naval Reserve and the Marine Corps Reserve.

The College of the Holy Cross is one of fifty-two Colleges and Universities in the country which have Naval ROTC Units. ACCEPTANCE FOR ADMISSION TO THE COLLEGE OF THE HOLY CROSS IS A PRE-REQUISITE TO ENROLLMENT IN THE NROTC UNIT AT THE COLIFICE

There are three types of students which make up the enrollment at each Unit.

THE REGULAR NROTC STUDENT

Regular NROTC Students are enrolled after a competitive selection procedure from among young men in civilian life and enlisted men of the Navy and Marine Corps.

The selection of these students is controlled by the Chief of Naval Personnel and the details of procedure and application forms may be obtained from Navy Recruiting Stations, Offices of Naval Offices Procurement in all Naval Districts, NROTC Colleges, and from high school principals. Applicants for Regular NROTC status are usually submitted to the Naval Examining Section of the Educational Testing Service, Princeton, New Jersey, sometime in November of each year, and the nation-wide competitive examination is held in December.

The Regular NROTC Student is appointed a Midshipman, U.S. Naval Reserve, and in effect is given a Navy scholarship which includes tuition, laboratory fees, books, uniforms, etc. He also receives retainer pay of fifty dollars per month which may be used to defray living expenses.

In return, the Regular NROTC Student must agree to certain provisions, one of which is to accept, upon his graduation, a commission as an officer in the Regular Navy and to serve on active duty for three years, after which he may choose between a career in the Regular Navy or release to inactive duty. In the event of the latter, he must remain a member of a reserve component of the U.S. Naval Service until the eighth anniversary of his original commission. A limited number may apply for Marine Corps commissions during their second year in the Naval ROTC program.

The Regular NROTC Student takes the four year Naval Science course in place of required or elective subjects, and participates in three summer training cruises prior to commissioning. At Holy Cross he may enroll in any course leading to a baccalaureate degree except the pre-medical, predental, pre-veterinary and pre-theological.

At the present time, the Regular NROTC Student is deferred from induction for service under the Selective Service Act of 1948, as amended, and the Universal Military Training and Service Act of 1951.

Those students who are interested in competing for selection as Regular NROTC Students for enrollment in college in September, 1955 are advised to obtain the necessary application forms from high school principals, Offices of Naval Officer Procurement, Navy Recruiting Stations, or NROTC Units, sometime in September or October, 1954, at which time they should become available.

The competitive examination for selection of Regular NROTC Students for admission to college in September, 1955, will be held in December, 1954.

THE CONTRACT NROTC STUDENT

Contract NROTC Students are enrolled by the Professor of Naval Science in numbers limited by quotas specified by the Chief of Naval Personnel and restricted to qualified students entering an NROTC institution. The qualifications for admission of these students is much the same as for Regular NROTC Students. They take the same Naval Science course and must participate in a summer cruise upon completion of the Junior year. There is no restriction on the course of study which a Contract Student may pursue; nor is he required to take college physics while in the program. However, the course of study pursued must lead to a baccalaureate or higher degree and must be compatible with Naval Science requirements. Contract NROTC Students are provided with Navy books and uniforms but do not receive the financial assistance given to Regular NROTC Students, although they are entitled to commutation of subsistence which amounts to approximately twenty-seven dollars per month during their Junior and Senior years.

At the present time, the Contract NROTC Student is deferred from induction for service under the Selective Service Act of 1948, as amended, and the Universal Military Training and Service Act of 1951. However, he must agree to accept, upon his graduation, a Naval Reserve commission as an officer in the inactive Naval Reserve, for eight years, during which time he will be subject to call to active duty by the Secretary of the Navy, and if called, must serve on active duty for a period of not less than two years. The present policy is to call Contract Students to active duty immediately upon graduation and commissioning.

Upon receipt, during the summer, of a list of Freshmen accepted by the College, letters of information inviting application for admission into the NROTC as Contract Students in September will be mailed by the NROTC office to all Freshmen listed. During the two weeks preceding the start of the academic year, under the direct supervision of the NROTC office, applicants are interviewed, examined physically, screened, and finally selected for enrollment as Contract NROTC Students.

THE NAVAL SCIENCE STUDENT

Naval Science Students may be enrolled by the Professor of Naval Science as an elective course for college credit. They have no official status in the NROTC Program and receive none of the advantages of the Regular and Contract NROTC Students other than the training and background received in their preparation for active service. This training will be beneficial should they apply for commission through sources normally available to college graduates other than the NROTC Program.

The Naval Science Student is not deferred from induction for service under the Selective Service Act of 1948, as amended, and the Universal Military Training and Service Act of 1951.

QUALIFICATIONS FOR ENROLLMENT IN THE NROTC GENERAL

Each candidate for enrollment in the NROTC must meet the following requirements:

- (a) Be an unmarried male citizen of the United States, never have been married, and agree to remain unmarried until commissioned.
- (b) Have attained the seventeenth anniversary of his birth on or before July first of the year of enrollment and be of such age that he will not have passed the twenty-fifth anniversary of his birth on July first of the year he will be commissioned (i. e., not over 21 on July first of the year of initial enrollment at the beginning freshman level).
- (c) Be morally qualified and possess officer-like qualifications and character as evidenced by appearance, scholarship, extra-curricular activities, and record in his home community.
- (d) Be at least a high school graduate or person of equivalent educational level.
- (e) Have been legally admitted as a citizen of the United States if a citizen of an insular possession of the United States.
- (f) Be willing to execute current Loyalty Certificates prior to his appointment or enrollment.
 - (g) Be physically qualified according to current requirements.

COURSE DESIGNATIONS

NS NS		Naval History and Orientation Naval History and Orientation	3 credits 3 credits
NS	201	\$7	3 credits
·NS	202	Naval Weapons	
NS	301	Navigation •	
NS	302	Navigation	3 credite
NS	401	N1=1 N21-1	3 credits
NS	402	61 1 6. 1 111. 51 6 6	3 credits

Candidates for commissions in the Marine Corps will be required to complete NS 101, 102, 201 and 202. In place of NS 801, 302, 401 and 402 they will take courses in Marine Corps subjects as follows:

NS 301M	History of the Art of War	3 credits
NS 302M	Modern Basic Strategy and Tactics	3 credits
NS 401M	Amphibious Warfare, Part I	3 credits
NS 402M	Amphibious Warfare, Part II, Leadership,	
	Uniform Code of Military Justice	3 credits

DEPARTMENT OF PHILOSOPHY

Professors O'Mahony (Chairman), Dowling, Flanagan, Gillis, Haran, Hutchinson, Maher, Moran, J. F. Sullivan; Associate Professors Drohan, Keleher, O'Callahan, J. J. Shea; Assistant Professors Donnelly, Harrington.

Philosophy 41. Logic

Introduction to philosophy; great names and great systems; definition and division of philosophy.

Study of the idea; definition, extension, and comprehension; division—the universal idea, predicable and predicaments. Terms: mental and oral—division—analogy and supposition.

The study of the judgment: definition — propositions, their nature and division — extension and comprehension of the predicate — quantity and quality of propositions — opposition, conversion and equivalence of propositions.

The study of reasoning: the syllogism, various kinds and their laws — figures and modes; other forms of argumentation; demonstration and its division; deduction and induction, complete and incomplete.

Three credit hours.

Philosophy 42. Epistemology.

Study of truth, and of the mind in relation to truth; ignorance, doubt, opinion, certitude; means of arriving at certitude; senses, intelligence, reason, intellectual analysis; motives and criteria of truth; objective evidence.

Three credit hours.

Philosophy 43. Ontology.

Meaning of General Metaphysics. Being as such; its nature as transcendental and analogous; its objective concept. Imperfect metaphysical composition; existence and essence. Transcendental attributes of being, unity, goodness and truth. Substance and accident; their definition, division, and reality; alternatives; causality, efficient and formal; the reality of causes.

Three credit hours.

Philosophy 44. Cosmology.

Subject matter, bodily things. Physical essences; atoms, elements, substantial changes and essential differences. Mechanical atomism, dynamism, and hylomorphism as accounts of the ultimate constitution of matter. Quantity, and the meaning of 'continua'. Efficient and final causality in the activities of bodily things. Laws of nature; miracles. Cosmogony, and the monistic explanations, both pantheistic and naturalistic. Cosmogony by creative act. Three credit hours.

Philosophy 51. Natural Theology.

The Existence of God: various philosophic attitudes; our knowledge of this truth; cosmological and teleological arguments; Ontologism, Traditionalism, and Pragmatism in regard to this truth.

The Essence of God: the idea of the Infinite; unity of God; physical and

metaphysical essence; Modern Pantheists; Anthropomorphism.

The Divine Attributes; immortality, eternity and immensity of God; simplicity and infinity of God; the Divine Intellect and Knowledge; Fore-knowledge of God; Fore-knowledge of free actions; the Divine Will; Omnipotence of God.

Activity of God with Creatures: preservation of creatures; concurrence;

Providence; its relation to evil.

Supplementary Questions: Schopenhauer's 'World Will'; Hartmann's 'Unconscious'; Alexander, on Space-Time. Two credit hours.

Philosophy 52. Fundamental Psychology.

Life in General: properties of living and non-living bodies; immanency of actions; Scholastic concept of life.

Plant Life: sensitive life; unity and divisibility of the animal soul; instinct

and intelligence; theories on the origin of the instinct.

Origin of Life: the scholastic theory on the origin of the first living bodies; spontaneous generation; origin of plant and animal species.

Two credit hours.

Philosophy 53, 54. Advanced Empirical and Rational Psychology. A study of sensitive life, including the nature of sensation and its properties; the doctrine of the species, the external and internal senses, hallucinations and dreams; the perception of the material world and the refutation of the skeptical theories of Descartes, Locke, Berkley, Hume, Mill, Bain; the sensuous appetite. A study of intellectual life, including the origin of ideas, judgment and reasoning, attention and reflection, memory, the rational appetite - the will, its nature and freedom.

A study of the human soul, its substantiality, individuality, simplicity and spirituality; refutation of false theories on the nature of the human soul; origin and destiny of the human soul; anthropological evolution.

Four credit hours.

Philosophy 55. General Ethics.

Definitions, nature, object, necessity of Ethics; the ultimate end of man; beatitude; the human act; merit and accountability; the passions; virtue and vice; morality of human acts; the norm of morality; Utilitarianism and Hedonism: Bentham, Mill and Spencer; the eternal law and the natural law; properties and sanction of the natural law; nature and origin of moral obligations; Kant's categorical imperative; Conscience. Four credit hours.

Philosophy 56. Special Ethics.

Man's duty to his Creator; Rationalism; Indifferentism.

Man's duty to himself; man's duty to preserve himself; suicide.

Man's duty to his neighbor; direct and indirect killing; killing done in self-defense; lying, mental reservation.

Right of ownership: Communism and Socialism; theories of Henry George; Herbert Spencer on the right of property; modes of acquiring property; rights of disposing property by will; contracts; relations of capital and labor; trade unions; strikes.

Social Ethics: Society in general: nature and end of domestic society; unity and indissolubility of matrimony; divorce; parental authority; education of the child.

Civil Society: nature, end and origin; false theories on the origin of civil society; Hobbes and Rousseau; the Scholastic doctrine; forms of civil government; citizenship; universal suffrage; the functions of civil government—legislative, judiciary, executive; taxation; death penalty; freedom of worship; freedom of the press; state education.

International Law: various meanings of Jus Gentium; foundation of international law; mutual relations of nations; right of commerce; rights of neutrals; nature and justice of war; arbitration.

Four credit hours.

Philosophy 62.1, 62.2. History of Philosophy.

Greek philosophy; Pre-socratics as presented by Plato and Aristotle; Socratic method; Platonic dialogs; Myths; metaphysics' beginnings; Aristotle on the mind; on causes; potency and act.

Scholastic philosophy; origin of the schools; Anselm, Erigena; renaissance of the twelfth century, the great systems; Thomastic synthesis; neoscholasticism.

Modern schools; Descartes, Occasionalism, Modern pantheism; Empiricism, Positivism, Rationalism, Idealism, Critical philosophy; Neo-Kantians; New realism; Value philosophies.

Six credit hours.

DEPARTMENT OF PHYSICS AND MATHEMATICS

Professors Smith (Chairman), McDonald, Nestor; Associate Professors Connolly, J. F. Fitzgerald, McBrien, Radle; Assistant Professor Swords; Instructors Handrahan, McGillicuddy; Visiting Lecturer Calabi.

PHYSICS -

Physics 1. Mechanics, Heat and Sound.

An introduction to Mechanics, Heat and Sound. Three lectures and one (three-hour) laboratory period.

Four credit hours.

Physics 2. Electricity and Light.

An introduction to Electricity and Light. Continuation of Physics 1. Three lectures and one (three-hour) laboratory period. Four credit hours.

Physics 21. Geometrical and Physical Optics.

Fundamental concepts in geometrical optics. Laws of image formation. Optical systems. Aberrations in optical systems. Photometry. Optical instruments. Interference, diffraction and polarization of light. The eye and color vision. Radiation. Interferometry. Three lectures and one (three-hour) laboratory period. Prerequisite Ph. 1, 2.

Four credit hours.

Physics 31.1 Applied Mechanics I-Statics.

Forces in one plane. Forces in space Centroids. Moment of inertia. Weighted cords and links. Two lectures. Prerequisite: Ph. 1, 2.

Two credit hours.

Physics 31.2. Applied Mechanics II—Dynamics.

Dynamics of a particle. Work and energy. Dynamics of rigid bodies. Friction. Two lectures. Prerequisite: Ph. 31.1.

Two credit hours.

Physics 32. Engineering Drawing.

Isometric and obilque projections. Simple prespective projections. The construction of conics and rolled curves. Dimensioned freehand sketches from machine parts and detail drawings from the sketches. Two (two-hour) laboratory periods.

Two credit hours.

Physics 33. Descriptive Geometry.

A study of the fundamental operations of orthographic projection. Lines, planes, solids, sections, developments tangent lines and planes, and intersections of surfaces of revolution. Two (two-hour) laboratory periods.

Two credit hours.

Physics 41.1, 41.2. General Physics.

A survey of the fundamental laws of Mechanics, Sound, Light, Heat and Electricity. The principles are illustrated by their application to the automobile, aeroplane, meterology, seismology, astronomy, radio and television. The course is concluded by an introduction to Modern Physics. Elective for non-science majors. Two lecture hours and one (two-hour) laboratory period.

Six credit hours.

Physics 43.1. Electricity.

Electrostatics, magnetostatics, theory of dielectrics, the electric circuit, the magnetic circuit, inductance, capacity, alternating current, electric oscilla-

tions, instruments and measurements. Three lectures and one (three-hour) laboratory period. Prerequisite: Math. 22.2 and Ph. 2 Four credit hours.

Physics 43.2. Alternating Current Circuits.

Sinusoidal single-phase and polyphase circuit analysis. Non-sinusoidal waves. Determination of circuit parameters. Transmission line calculations. Filters. Transient conditions. Three lectures and one (three-hour) laboratory Four credit hours. period. Prerequisite: Ph. 43.1.

Physics 44.1. Strength of Materials I.

Physical properties of materials. Analysis of stress and strain. Uniform stress and uniformly varying stress. Stresses in beams. Three lectures. Three credit hours.

Physics 44.2. Strength of Materials II.

Deflection of beams. Statically indeterminate problems in bending. Beams of materials which do not follow Hooke's Law. Beam of two materials. Stresses due to direct and bending loads. Combined bending and twist. Energy and strain. Three lectures. Prerequisite: Ph. 44.1.

Three credit hours.

Physics 45. Heat and Thermodynamics.

Temperature and thermometry. Laws of thermodynamics. Equations of state for gases. Specific heats. The transfer of heat by conduction and convection. Thermodynamic relations and their use. Power cycles. The principle of the increase of entropy. Three lectures and one (three-hour) Four credit hours. laboratory period. Prerequisite: Ph. 2.

Physics 52. Introduction to Atomic and Nuclear Physics.

The photoelectric effect. The origin of the quantum theory. Specific heats. Line spectra and interpretation. The structure of the atom. X-rays. The nucleus of the atom. The wave theory of matter. Three lectures and one (three-hour) laboratory period. Prerequisite: Math. 22.2. and Ph. 2.

Four credit hours.

Physics 53. Electromagnetic Theory.

Electrostatic and magnetostatic fields Solutions of Laplace's Equation Maxwell's Field Equations. Reflection and refraction of electromagnetic waves. Radiation. Microwave theory. Antennas and wave guides. Three Three credit hours. lectures. Prerequisite: Ph. 43.1.

Physics 54. Electronics.

A study of the characteristics and applications of vaccum and gas-filled thermionic and photoelectric tubes, cold cathode tubes, cathode-ray tubes, barrier layer photocells, and other electronic devices. Three lectures and one (three-hour) laboratory period. Prerequisite: Ph. 43.2. Four credit hours.

Physics 60. Theoretical Mechanics.

Linear oscillators. Motion in two and three dimensions. Lagrange's and Hamilton's equations. Motion of rigid bodies. Elastic vibrations. Flow of fluids. Three lectures. Prerequisite: Math. 22.2. Three credit hours.

Three credit hours.

Physics 62. Theoretical Aerodynamics.

The fundamentals of aerodynamics and its application to aircraft design and performance. Applications of aerodynamics in industrial flow machines.

Three lectures.

Three credit hours.

Physics 75. Introduction to Astronomy.

By means of lectures and illustration, coupled with some observation and laboratory work, the student is given a view of the universe in which we live. The course is developed by tracing the investigations which lead to the presently known picture of the world. Elective for non-science majors. Two lectures and one laboratory period.

Three credit hours.

Physics 76. Introduction to Geology.

Origin and age of the earth. Weather and climate. Terrestial magnetism. Processes of erosion. Glaciers and glaciation. Isostasy. Volcanism. Minerals. Rock structure. Earthquakes. Geologic history. Elective for non-science majors. Two lectures and one laboratory period.

Three credit hours.

Physics Seminar.

The Physics Seminar, a circle of the faculty and the more advanced students majoring in physics, meets semi-monthly.

MATHEMATICS

Mathematics 2.1. Mathematics of Finance I.

A review of the essentials of algebra followed by a detailed treatment of interest. Required for a major in Business Administration.

Mathematics 2.2. Mathematics of Finance II.

A continuation of Mathematics 2.1, treating of bonds, annuities, depreciation and capitalization. Required for a major in Business Administration. Prerequisite: Math. 2.1.

Three credit hours.

Mathematics 13.1. Analytic Geometry and Calculus I.

Coordinate systems and the equations of the straight line and circle. Functions, limits and derivatives with applications. Definite integrals with application.

Three credit hours.

Mathematics 13.2. Analytic Geometry and Calculus II.

Implicit functions, conic sections, transcendental functions with further applications of their derivatives and integrals. Prerequisite: Math. 13.1.

Three credit hours.

Mathematics 17. Introductory Analysis.

An elementary introduction to analysis for students majoring in Biology, Education, History, and the Social Sciences. Topics covered include functions and graphs, differentiation and integration of the simple functions. To be followed by Mathematics 18.

Three credit hours.

Mathematics 18. Elementary Statistical Analysis.

Introduction to the use of a sample, frequency distributions, mean value and standard deviation, elementary probability, binomial distribution and the normal law. Prerequisite: Math. 17.

Three credit hours.

Mathematics 23.1. Analytic Geometry and Calculus III.

Law of the mean, infinite series, solid analytic geometry, partial derivatives and multiple integrals with applications. Prerequisite: Math 13.2.

Three credit hours.

Mathematics 23.2. Differential Equations.

Further applications of the Calculus. Ordinary differential equations with applications to Chemistry and Physics. Prerequisite: Math 23.1.

Three credit hours.

Mathematics 31. Solid Analytic Geometry.

An advanced study of analytic geometry of three dimensions. Prerequisite: Math. 13.2.

Three credit hours.

Mathematics 32. Advanced Algebra.

Topics in advanced algebra including induction, probability, finite and infinite series. (This course and Mathematics 63 give preparation for students interested in actuarial careers.) Prerequisite: Math. 23.1. Three credit hours.

Mathematics 41.1. Advanced Calculus I.

Line integrals, vector analysis with applications to Physics, Fourier series.

Prerequisite: Math. 22.2.

Three credit hours.

Mathematics 41.2. Advanced Calculus II.

Introduction to partial differential equations and functions of a complex variable. Special topics from analysis. Prerequisite: Math. 41.1.

Three credit hours.

Mathematics 42. Differential Equations.

Ordinary differential equations with applications to chemistry and physics.

Three credit hours.

Mathematics 45.1. Introduction to Higher Algebra I.

An introduction to modern algebra and the abstract method. The integers, rational numbers and fields, polyniomial forms, complex numbers, basic theory of groups and n-dimensional vector spaces. Three credit hours.

Mathematics 45.2. Introduction to Higher Algebra II.

A continuation of Mathematics 45.1. The algebra of matrices, linear groups, determinants, rings and ideals, algebraic number fields.

Three credit hours.

Mathematics 55.1. Introduction to Higher Geometry I.

Homogeneous coordinates and the geometry of the projective plane. Correspondence, cross-ratio, and treatment of the conic.

Three credit hours.

Mathematics 55.2. Introduction to Higher Geometry II.

A continuation of Mathematics 55.1. Projective and metric properties of point and line curves. Types of transformations.

Three credit hours.

Mathematics 61. Vector Analysis.

The algebra and calculus of vector quantities. Theorems of Gauss, Green and Stokes. Applications to physics.

Three credit hours

Mathematics 63.1. Statistics and Probability I.

Frequency distributions, averages, moments, probability, normal law, regression curves and correlation. Prerequisite: Math. 23.1. Three credit hours.

Mathematics 63.2. Statistics and Probability II.

A continuation of Mathematics 63.1. Theory of sampling and testing. Introduction to finite differences.

Three credit hours.

Mathematical Seminar.

The seminar, a circle of the Faculty and the advanced students, meets semi-monthly.

DEPARTMENT OF RELIGION

Professors HARAN (Chairman), CONNORS, DOODY, L. E. FITZ-GERALD, GALLAGHER, O'CONNOR; Associate Professors BARRY, CASEY, DELANEY, DEVLIN, McGRADY, J. R. SULLIVAN, WALSH; Assistant Professors DONNELLY, HUGAL, STANTON.

Religion 10. The Life of Christ.

The divine progressive revelation in the Old Testament through the patriarchal, mosaic, prophetic and post-exilic periods. The prophecies concerning a Redemption to be accomplished and a Kingdom to be established by the Messias, Prophet, King and Priest.

The origin, literary type and historical value of the Gospels. The political, social and religious background, and the Messianic expectations in Palestine at the time of Christ's birth and ministry. The early ministry.

Two credit hours.

Religion 11. The Person, Mission and Church of Christ.

Christ's self-revelation as divine legate, authentic religious teacher for the whole world, Messias and Son of God. The nature and probative value of His miracles. The origin and juridical structure of His Kingdom, the Church, in the Gospels; its functioning in the Acts of the Apostles. The Position and prerogatives of Peter in the Church of Christ. The perpetuity and indefectibility of the Church of Christ.

Two credit hours.

Religion 20. Christ in His Members. (Part I).

The Mystical Body of Christ in the New Testament and in Christian history. The sacramental system. Baptism, Confimation, the Eucharist, Sacrament and Sacrifice.

Two credit hours.

Religion 21. Christ in His Members. (Part II).

Sin and Repentance. The sacraments of penance, extreme unction, holy orders and matrimony.

Two credit hours.

Religion 30. Christology and Soteriology.

Jesus Christ, God and Man; Priest and Redeemer. The Redemption. Mary, the Mother of the Word Incarnate. Her prerogatives.

Two credit hours.

Religion 31. Fall of Man and Justification.

The background, setting, meaning and consequences of original sin.

The nature, necessity, gratuity and effects of grace, both actual and habitual.

Two credit hours.

Religion 40. Christian Churches in America.

The division of Churches. The Ecumenical movement. A comparative study of the Catholic and Protestant doctrinal positions on the Blessed Trinity, Divinity of Christ, nature and functioning of the Church of Christ, faith, justification, sacraments, sacrifice, public worship, death, judgement, heaven, hell and purgatory. The meaning of religious freedom and freedom of conscience. Church-State relations.

Two credit hours.

Religion 41. Social Action in the Church.

The theory and practice of social action in the Mystical Body of Christ. Christian Asceticism. Social worship. The liturgy. Christ and the social order.

Two credit hours.

DEPARTMENT OF SOCIOLOGY

Professors FACEY (Chairman), TWOMEY; Instructor BUGDEN.

Sociology 31.1, 31.2. Introductory Sociology.

This fundamental course introduces students to the generalizing science of society. Its function is to present an analysis of the structural formation of human groupings as well as of the manifold possible variations in the societies of men. Its method is to study the concepts peculiar to the science, to delineate the important forms of social life. Its purpose is to help the student arrive at an insight into the complexity of his social nature and to provide him with a perspective before the study of specialized social problems. It serves, moreover, in its introductory capacity, as the means of acquainting the student with the major problems of sociological interest.

Six credit hours.

Sociology 60.1, 60.2. Cultural Anthropology.

The development of man, society and culture; pre-literate cultures; the use of anthropological techniques in the study of advanced societies and cultures; anthropology and other social sciences. Six credit hours.

Sociology 61. Contemporary Sociological Theories.

Supplementing the course of concepts and principles, the course on theory presents the historical development of the science as found in the important authors. A descriptive and critical analysis of the theories exposed by authors from Auguste Comte to the present day illustrates the changing emphasis upon diverse factors conditioning social life. A consideration of the mechanistic, the geographical, the biological, the demographic, the sociologistic, the psychological schools, both informs the student of the cultural development of sociology, and enables him by avoiding the errors of the past to direct his efforts along the path of balanced procedure.

Three credit hours.

Sociology 62. Early Sociological Theories.

To broaden the perspective of the student of sociology, an investigation is made into the social theories of selected authorities who antedated the rise of formal sociology. In relation to the type of society and of culture in which they appeared, the social theories of Hindu Caste Society; the Confucian theory; the Graeco-Roman theories as illustrated by Plato, Aristotle, the Stoics, Cicero and Marcus Aurelius; the later Roman theories of the Church Fathers and of the Roman Jurists; the Medieval Lawyers; St. Thomas Aquinas; Francis Suarez and Hugo Grotius—are to be considered under their dominant characters. The purpose of the course is cultural but also orientated to the discovery of the various recent trends in respective periods of earlier date.

Three credit hours.

Sociology 63. Criminology.

This course deals with the causes, treatment and prevention of crime; the nature of crime and the concept of causation in criminological literature; a discussion of the more important theories of the etiology of crime, including the views of the Classical, Positivist and modern schools of criminological thought. A critical review of the basic approaches to the problem of crime and of the main features of the legal machinery for the apprehension, trial and punishment of criminals; a study of the penological, reformative and preventive programs with a survey of the various measures in operation for the moral, physical and social rehabilitation of offenders; probation; indeterminate sentence and parole; an analysis of preventive measures and outstanding crime surveys.

Three credit hours.

Sociology 64. Industrial Sociology.

The social roles of employers and of employees; formal and informal social structures in industry; the impact of total social environment upon productivity; industry and the community.

Three credit hours.

Sociology 65. Social Statistics.

This course introduces the student to the quantitative method of the social sciences. It presents the principal methods of obtaining, analyzing, and interpreting the primary data of the social sciences and is designed as an introduction to social research. It includes a review of the simpler methods of statistical description and analysis most useful for such problems as meet the social scientist. The approach places emphasis upon the logical basis of inference rather than upon mathematics. It prepares the student both for the understanding of data arranged statistically and for active compilation and interpretation of research work. Three credit hours.

Sociology 66. Marriage and the Family.

This course is a study of the internal and external structures and functions of the several family institutions and their relation to the social structures of which they are parts. A critical examination will be made of the diverse theories of the origin and composition of the family. Special study will be made of the monographs of Frederick LePlay, and of the American family, with application to present state of familism and its consequences in relation to social prosperity.

Three credit hours.

Sociology 67. Urban Sociology.

This course is designed to illustrate the effect of the rural or of the urban environment upon its inhabitants. It provides a descriptive historical account of the comparative distribution of men within these two areas with an analysis of the respective results upon the birth rate, death rate, health, mentality, and manner of life and culture of the inhabitants. It includes an appraisal of the present distribution of men, a casual inquiry into the fact, the resultant social problems and proposed solutions thereof.

Three credit hours.

Sociology 68.1, 68.2. Social Pathology.

An analysis is made of the causes, extent, treatment and prevention of poverty, mental disease, handicaps and crime. This course presents the facts of social deviations and maladjustments present in contemporary society. It investigates their origin and their functional relation to social structure. It examines the efficiency of preventive and ameliorative agencies, with an effort to estimate the most effective distribution of agencies between private philanthropy and the government. Ethical principles are explained as correlated to remedial and constructive social policy.

Six credit hours.

Sociology 70. The U.S.S.R.

An empirical study of the attempt to build society according to Marxist principles. The factors which determine the emergence of the evolutionary society are analyzed in terms of a theory of social change. Political, socioeconomic and cultural developments are studied in relation to the changing structure of Soviet society. The contributions of Marxism to the Soviet system, its deviations from Marxism are weighed in an empirical assessment of the validity of scientific socialism.

Three credit hours.

Sociology 72. The Field of Social Work.

The major objective of the course is to offer a broad survey of the field of social work as a professional endeavor, to provide a knowledge of the philosophy, history, objectives, and methods of the profession of social work as a whole, with particular emphasis on specific aspects such as case work, group work, and community organization. The course is offered as an orientation course for undergraduates, and is not designed to supplant professional training for the field, nor does it aim at the production of social workers.

Three credit hours.

GRADUATE DEPARTMENT OF CHEMISTRY

Professors Fiekers (Chairman), Baril, Van Hook; Associate Professor Tansey.

The College conducts courses in Chemistry for Graduate Students leading to the Master of Science degree. Registration for these courses is open only to students who hold Bachelor's degrees from approved colleges and technical schools. Candidates for admission should file applications with the Chairman of the Chemistry Department before the fifteenth of March each year. In support of application each candidate should forward a transcript of his undergraduate record and two letters of recommendation should be supplied by former chemistry professors of the applicant. A supplemental completed transcript, with record of degree received, should be sent after graduation in the case of successful applicants. Information as to fellowships available in the graduate department should be requested of the Chairman for Chemistry.

REQUIREMENTS FOR DEGREE

To become candidates for the Master of Science Degree students must fulfill the following conditions:

- 1. Attend and complete, with work of high quality, graduate courses amounting to not less than thirty semester credits of which at least ten must be obtained in laboratory courses.
- 2. Present an experimental thesis in their major field which shall include the results of original research and evidence of high scholarship.
- 3. Pass a one-hour oral, public examination conducted by the Chairman and Staff of the Department with at least one other member of the College Faculty to be appointed by the Dean.

Recommendation for the degree does not, however, follow automatically upon the completion of courses and examinations, but only on the affirmative judgment of the Department in each individual case.

ADMISSION TO GRADUATE WORK

Applicants for graduate work should present a minimum of eight undergraduate credits in each of the following subjects: the differential and integral calculus (eight credits total), physics, inorganic chemistry, organic chemistry, analytic chemistry, and physical chemistry. Laboratory work should be included in all of these courses except the calculus. Other laboratory courses in chemistry are desirable. Accordingly applicants who do not present the following undergraduate courses may be required to take them in whole or in part, along with, or antecedent to, their regular graduate work. Cases will be judged individually from the record of undergraduate work.

Chemistry 51.3 Advanced Physical Chemistry (see page 57)
Chemistry 52.1 Qualitative Organic Analysis (see page 58)

When these courses or their equivalents are offered, only one year of residence will be the normal requirement for the acquisition of the Master of Science degree.

GRADUATE COURSES

Chemistry 201. Advanced Inorganic Chemistry.

The lectures in this course comprise a study of the structure of inorganic compounds and the interrelations of elements and compounds according to the periodic chart. Valence studies are stressed and the ideas of Werner, Pauling, Price and current workers in the field are emphasized. The laboratory part of the course starts off with inorganic preparations and progresses into instrumental, analytic and advanced methods, such as liquid ammonia syntheses and the like. Industrial analysis is touched upon. Required of all graduate students. Two lectures and two triple-hours of laboratory per week for one semester.

Chemistry 203. Advanced Organic Chemistry.

The syllabus for this course will vary from year to year according to current trends in organic research and the special background that may be required to comprehend modern advances. Topics used in the past have included: advanced topics in stereochemistry, cyclization of organic compounds and organic heterocyclic chemistry, the chemistry of organic nitrogen compounds, the Diels-Alder Diene synthesis and the chemistry of carbohydrates, fats, oils and other natural products. Similarly the laboratory course, apart from the acquisition of organic chemical preparative techniques that are not generally realized in the undergraduate courses, is generally geared to current organic research in the department. Thus at times micro analysis for elements occurs. Required of all graduate students. Two lectures and two triple-hours of laboratory per week for one semester.

Chemistry 207. Chemical Thermodynamics.

This course develops the principles of chemical thermodynamics and includes some applications. The fundamentals of statistical mechanics are also taught. Laboratory work comprises experiments in advanced physical chemistry with emphasis on thermochemistry. Required of all graduate students. Three lectures and two double hours of laboratory per week for one semester.

Five credit hours.

Chemistry 208. Reaction Rates.

A study of the kinetics of reactions in both homogeneous and heterogeneous systems, paralleled with experimental applications. Required of all graduate students. Three lectures and two double-hours of laboratory per week for one semester.

Five credit hours.

Chemistry 209. History of Chemistry I.

The historical development of fundamental chemical concepts up to and

including the nineteenth century. Assigned readings. Required of all graduate students. One lecture per week for one semester. One credit hour.

Chemistry 210. History of Chemistry II.

A study of contemporary developments and contemporary chemists. Assigned readings. Required of all graduate students. One lecture per week for one semester.

One credit hour.

Chemistry 212. Department Seminar.

One hour per week. One credit for each semester. Total credit not to exceed two credit hours.

RESEARCH FOR MASTER'S DEGREE

Chemistry 213. Research for Master's Degree.

Research of a fundamental nature is offered in organic and physical chemistry. Opportunity for the direction of undergraduate research in problems related to current graduate research is also afforded. Six hours per week for two semesters.

Six credit hours.

Chemistry 214. The Literature of Chemistry.

This is an informal course, with no record or credit, which is adapted to the needs of the individual student or group. The course is introduced with a brief lecture, a conducted tour of the Library in the Department of Chemistry, assigned reviews of handbooks like Reid, Soule, Mellon and the patent policy handbooks of various companies. Literature searches are then assigned preferably in fields outside of the student's concentration. Eventually the student's library work in connection with his own research is carefully supervised.

FELLOWSHIPS

In 1926, the College of the Holy Cross established six graduate fellowships in Chemistry. At present each fellowship carries free board, room and tuition or its pecuniary equivalent. Fellows are required to spend from four to twelve hours per week in undergraduate laboratory instruction. These fellowships are offered to graduates of colleges or technical schools, who are properly qualified to undertake graduate work in chemistry. Applications must be filed with the Chairman for Chemistry by the fifteenth of March each year.

DEGREES CONFERRED

June 10, 1953

HONORARY DEGREES

DOCTOR OF LAWS
Daniel Joseph Feeney
Joseph Augustine McNamara

DOCTOR OF SCIENCE Francis Joseph Steele

DOCTOR OF EDUCATION William Russell Peck, Sr.

DOCTOR OF COMMERCIAL SCIENCE
John Probst Maguire

DEGREES IN COURSE

MASTER OF SCIENCE

Robert Edward Burke William Vincent Curran John Walter Donovan Marcus Emmett French Martin Benedict MacInnis William Henry McBride, S.J. Theodore Frederick Strow Thomas Vincent Sullivan

Robert Charles Taylor

BACHELOR OF ARTS HONORS SUMMA CUM LAUDE
John Daniel O'Connell

BACHELOR OF ARTS HONORS MAGNA CUM LAUDE

Joseph Alexander Clair, III Kenneth John Dunne

Robert James Meyer Herbert Michael Schiffer

Richard Bryant Treanor

BACHELOR OF ARTS HONORS CUM LAUDE

James Denis Boulger
William Joseph Brennan, Jr.
William deBolle Brusstar, Jr.
Alexander James Burke
Robert Patrick Casey
William Joseph Costello

Robert Sheerin Curry
Richard Francis Doyle
George Edward Dube
Edward Owen Fox
William John Goebelbecker
John Frederick Lancaster

Earle Louis Markey
Salvatore Ralph Marra
Donald Charles Matthews
Michael John McNulty
John Frederick Morrissey
John Killeen O'Connor
Peter Clark O'Donnell

James Kenneth Ready Joseph Francis Sawyer, Jr. James Michael Sheehey Robert William Simmons James Harrington Snyder John Grimes Suelzer John Wolfgang Weiser

BACHELOR OF ARTS HONORS

Dominic John DePasquale William Edward Flynn

Austin Philip Leary Charles Francis Masterson, Jr.

Francis Joseph O'Connor

BACHELOR OF ARTS MAGNA CUM LAUDE

Richard Joseph Haberlin Joseph Peter Kerwin Francis Xavier Kett Robert Leon Larkin Francis Michael McDonald Edward Joseph Murawski

BACHELOR OF ARTS CUM LAUDE

Michael John Biety
Joseph Thomas Brennan
Martin James Cain, Jr.
William Edward Caldwell
Joel Cormack Cohan
Bernard Anthony Drabeck
Edward Thomas Duffy
Joseph James Giedraitis
Daniel Joseph Gifford
David John Gorman

John Joseph Kelliher
Paul Augustin Kennedy
Charles Edgar LaPalme
John Stephen Madaras, Jr.
Kevin Michael O'Halloran
Edward James O'Malley
Louis George Pecek
Leonard Vincent Quigley
Charles Edward Rice
William John Scarpa

John Joseph Weis

BACHELOR OF ARTS

John Anthony Antonell
John James Bain
Joseph Anthony Bambury, Jr.
Urville James Beaumont
Albert Louis Belauskas
Robert Alfred Blais
Harry Aloysius Boyle, Jr.
Thomas Aloysius Brennan
James Austin Bronson
John Patrick Burke
John Howard Byington, Jr.
Ralph Joseph Carrigan
Frederick Stephen Conlin, Jr.
Herbert Manning Crowley

James Michael Curley
Robert Edward Dalton
Louis Patrick DeBiasse, Jr.
Justin Francis Deedy
John Francis Devlin
Francis Joseph Doherty, Jr.
David Patrick Donohue
John Michael Driscoll
Maurice Clement Duchaine
John William Duquette, Jr.
John Joseph Egan, Jr.
Edward Louis Eyerman, Jr.
Francis Joseph Fazio
Herbert Alfred Finnegan

William Charles Flanagan Arthur Hugh Fleming Joseph Robert Fogarty Vincent Timothy Foley Arthur Joseph Frawley, Jr. Charles Francis Gardner Anthony Francis Generosa James Francis Gill Charles Joseph Grady, Jr. John Francis Graney, Jr. Kenneth LeRoy Hand John Thomas Harrington Francis Dwight Hassett, Jr. Norman Richard Hedenstad Michael Andrew Heffernan James Anthony Hogan John Thomas Howard George Keefe Jackson, Jr. Paul Francis Jannott Arthur William Kane, Jr. Edmund Daniel Keating Robert Francis Kelly Richard Rowen Kiernan Joseph Justin Kirby William Leo Lorenz Lawrence Patrick Mahoney Charles Thomas Maloy John Joseph Masterson Ralph Edward Mathieu William Edward McCole, Jr. John Dorsey McGeehan Kenneth Vincent McGinity Richard Ennis McGrail John Francis McHale Patrick McKenna

John Francis Monahan Arthur Timothy Moynihan Paul Arthur Nelson Donald Thomas Nolan Edward Paul Nuttall James Francis O'Brien John James O'Brien James Arthur O'Malley Salvatore Joseph Parlato, Jr. Alfred Richard Persi Edmund Joseph Plummer, Jr. James David Power Edward Carroll Powers Owen Traynor Quigley Joseph Augustine Quinlan, Jr. Philip Andrew Rafferty David Barry Reardon Charles James Reilly Thomas Nicholas Ribadeneyra Lawrence Cullen Rowe Joseph Stanley Rozen Edward William Scannell, Jr. Peter Joseph Scopetski John Carroll Scully James Miller Thomas Sloan Peter William Spier John Andrew Tierney George Francis Unger, Jr. Robert Edward Unsworth Robert Thomas Vanasse James Henry Walsh, III William Sheehan Walsh Joseph Eugene Wills Edgar Jude Winters Harry Charles Zimmer

BACHELOR OF SCIENCE MAGNA CUM LAUDE

William Francis Edmonds George Vincent Franks Harry Copelin Jacobson Edward Joseph Lynch, Jr. Robert William O'Brien Philip Richard Sullivan Donald Henry Weisbecker William John White

BACHELOR OF SCIENCE CUM LAUDE

Frank Peter Alicandri Eugene Loring Alves Vincent Thomas Andriole Raymond Francis Bogucki Gregory Leo Brennan Robert John Bruneau Robert Edward Cahill Conrad Keefe Cyr Paul Francis Donahue
Dennis Jay Duffin
James Edward Enright
Gerard Joseph Fitzpatrick
John Henry Hetherton
John Gregory Higgins
Lawrence Charles Kenausis
William Joseph Kiernan, Jr.
Allen Francis Liehr
Benjamin Anthony Machinist

Roy Peter McPoland, Jr. Carmen Anthony Miller Donald Myles Mitchell Gerald Francis O'Neill, Jr. Robert Frederick Riekert John Vincent Schiavone Joseph Louis Sirois, Jr. Francis Xavier Stankard William Francis Stephanak Patrick Dudley Sullivan

James Paul Van Hook

BACHELOR OF SCIENCE

Ronald Joseph Abbott Joseph Francis Aloisio Francis Dominick Amadio Richard John Barnes John Joseph Barone Richard Louis Belanger Joseph Daniel Belzile Joseph Carl Benaglia Ronald John Boccieri, Jr. Richard Matthew Bogdan Robert Charles Boilard David Thomas Boland John Paul Boothby Benjamin Liston Bowden, Jr. William Francis Brennan Edward Francis Brothwell Gerald Francis Cahill John Timothy Cahill James Henry Calnan Tucker Joseph Campbell Anthony John Caputo John Patrick Carey Roger Francis Casavant John Andrew Case James Patrick Charles Gilman Joseph Chasse Ralph Frederick Clement Robert Francis Clements Eugene Mercil Clennon John Elliott Cochran Frank Joseph Cole Dennis Louis Collari Charles Augustus Connors, Jr. John Joseph Conte Owen Celestine Coogan

Ioseph Andre Croteau Robert Joseph Cullen Thomas Gene Cummiskey Francis Joseph Dannemiller Richard Angelo Decesare Socrates Steve Diacosavvas John Vincent Dinan, Jr. James Philbin Dolan Robert James Dolan Thomas Michael Dolan Edward Francis Donnelly Peter Edward Donnelly, Jr. George Daniel Donovan James Edward Doyle Thomas Francis Drummey Michael Allan Duggan Joseph John Dunay John Francis Dunbar Philip Rolland Dunn Francis Thomas Dyson Francis Xavier Essex George Everett Fanning John Myron Farrell, Jr. Frederick Joseph Fenlon John William Feuerbach John Moloney Flavan Daniel Vincent Flynn Robert Lawrence Fraser Richard Paul Gagan Frank Anthony Gaimari John Silas Thomas Gallagher Philip Maurice Gangi Richard John Garibotto Armand Ugo Garofalo Joseph Patrick Garvey

Donald Arthur Gavin Frank Joseph Geishecker William Francis Glavin Joseph Francis Gleason Edward Francis Greissing James Hugh Hamilton Robert Francis Hanratty Herbert Robert Harkins Arthur Eugene Hayes Warren Frederick Hess Paul Michael Higgins William James Hines Richard Freeman Hogan Robert Emmett Hogan, Ir. Curtiss Edward Houghton, Jr. Richard John Hovey Thomas Francis Hovey, Jr. William Joseph Jerome, Jr. Robert Joseph Joyce Robert Joseph Keefe Patrick Thomas Kelley Peter Ernest Kelly Leonard Jarvis Kendall, Jr. James Edward Kielley Donald Stewart King Thomas Henry King John Patrick Kinney, Jr. Robert Anthony Kolbe Thaddeus Stanley Kosciuszek Joseph Bernard Kuzava James Thomas Larkin Alan Lenormand Larson John Mitchell Leary Arthur Joseph Logan, Jr. John James Lonergan Francis Joseph Lopato Norman Everett Lovely Daniel Joseph Lucey Robert Joseph Lycke Edward John Lyons Edward Thomas Lyons, Jr. Robert Frederick Magilligan John Thomas Magnier Robert Charles Masterson Thomas Crawford Mayers, Jr. Edward James McCarthy, Jr. Charles William McGuane

Raymond Arthur McGuane Peter John McKernan Richard Edward McVay Chester Joseph Millett, Jr. Daniel Amos Mitchell George Peter Montefalcone James Anthony Moore Arthur Edward Moossmann Thomas Charles Muller Charles Edward Murphy John Joseph Murphy, Jr. Joseph Edward Murphy Louis George Murphy Paul Vincent Nally David John Nangle Peter Alphonsus Naton, Jr. Kenneth Edward Nicklas William Roger Nimee Joseph William O'Brien Denis Edward O'Connor Andrew Joseph O'Keefe William Andrew O'Rourke, Jr. Paul Henry Ouellette Thomas Francis Patenaude John Joseph Patti Joseph James Pennick Harold Conant Peterson, Jr. James Michael Piccione George Joseph Power James Austin Powers George Richard Reney Frank Raymond Rice, Jr. Victor Michael Rimkus Douglas Lee Root, Jr. Bartholomew Paul Russo, Jr. Patrick Joseph Ryan Richard Joseph Salamon Ronald Roger Sarrazin John Francis Saunders, III Stanley Edward Sawicki, Jr. John Anthony Seyda Dean Joseph Shipman Francis Donald Shortsleeve Robert Harvey Shortsleeve Donald James Slattery Currie Michael Sullivan Francis John Sullivan

Robert Joseph Sweeney Thomas Raphael Sweeney Joseph Edward Sweet, Jr. Paul Richard Szlyk John Louis Toner John Matthew Tweddle George Charles Vomacka Edward Philip Walsh Edward Michael Wardzala
John Richard Welch
Arthur Anthony Weller, Jr.
Howard Joseph West
John Edward Westhoff
Ralph Edward Williams, Jr.
Henry Valentino Zanetti
Robert William Zeiller

Norman Paul Zolkos

COMMISSIONED AS ENSIGNS IN THE UNITED STATES NAVY

Michael John Biety
Benjamin Liston Bowden, Jr.
Joseph Thomas Brennan
Gerald Francis Cahill
John Timothy Cahill
James Patrick Charles
Robert Francis Clements
Paul Francis Donahue
David Patrick Donohue
Francis Xavier Essex
Gerard Joseph Fitzpatrick
Joseph Robert Fogarty
Richard Paul Gagan
Joseph James Giedraitis, Jr.

Harry Copelin Jacobson
William Joseph Kiernan, Jr.
Edward Thomas Lyons, Jr.
Thomas Crawford Mayers, Jr.
Kenneth Vincent McGinity
Patrick McKenna
William Roger Nimee
Leonard Vincent Quigley
Douglas Lee Root, Jr.
John Francis Saunders, III
Dean Joseph Shipman
John Joseph Weis
John Wolfgang Weiser
Howard Joseph West

Ralph Edward Williams, Jr.

COMMISSIONED AS SECOND LIEUTENANTS IN THE UNITED STATES MARINE CORPS

Robert Alfred Blais Ronald John Boccieri, Jr. Gregory Leo Brennan John Elliott Cochran John Vincent Dinan, Jr. Peter Edward Donnelly, Jr. Michael Andrew Heffernan John Patrick Kinney, Jr.

STUDENT SPEAKERS

DEGREES CONFERRED SEPTEMBER 25, 1953

BACHELOR OF SCIENCE

Raymond Joseph Kosciuszko

AWARDS

June 1953

THE JOHN E. WICKHAM MEMORIAL PRIZE

The John E. Wickham Gold Medal, founded in 1939 by Mrs. Nicholas Wickham of Lee, Massachusetts, in memory of her son, The Reverend John E. Wickham of the Class of 1899, to be awarded annually to the highest ranking student of the graduating class, was awarded to John Daniel O'Connell.

THE FLATLEY PHILOSOPHY PRIZE

The Flatley Gold Medal, founded in 1890 by the late Reverend Michael F. Flatley of the Class of 1865, to be awarded annually to the student attaining the highest average in the philosophy courses of senior year, was awarded to John Daniel O'Connell.

THE STRAIN PHILOSOPHY PRIZE

The Strain Gold Medal, founded in June, 1877, to be awarded annually for the best essay on a subject selected from the field of philosophy was awarded to Richard Bryant Treanor of the graduating class for his essay entitled: "The Journalists Code and Respect for Human Rights."

THE MARKHAM MEMORIAL PRIZE

The Markham Memorial Prize consisting of a Gold Medal and a Purse of one hundred dollars, established in 1947 by the Most Reverend Thomas F. Markham, D. D., of the Class of 1913, in memory of his parents, James and Honora Hickey Markham, to be awarded annually to a student of the graduating class, designated by the Dean as having the highest rank of academic proficiency in the philosophy course of Natural Theology, was awarded to Donald Henry Weisbecker.

THE NUGENT MEMORIAL PRIZE

The Nugent Gold Medal, founded in June, 1894, by Reverend Edward Evans Seagrave, to perpetuate the memory of his ward, John T. Nugent, who died at the College in 1893, to be awarded for general excellence throughout the Bachelor of Science course in Physics was awarded to Harry Copelin Jacobson.

THE KILLEEN PRIZE IN CHEMISTRY

The Edward V. Killeen, Jr. Chemistry Purse, for general excellence throughout the Bachelor of Arts premedical course in chemistry, was awarded to Francis Xavier Kett of the graduating class.

THE FLAHERTY PRIZE IN HISTORY

The Flaherty Gold Medal, founded in May, 1903, by Patrick W. Flaherty, Esq., to be awarded annually for the best essay on a subject selected by the Faculty, was awarded to Robert Edward Dalton of the graduating class for his essay entitled: "Eli Whitney and His Gun Factory: the Genesis of Interchangeable Manufacture."

THE McMAHON PRIZES IN HISTORY

The McMahon Purses, three in all, founded in 1927 by the late Right Reverend Monsignor John W. McMahon of the Class of 1867, to be awarded annually for the best essays on the History of the Catholic Church in New England, were awarded as follows: the first prize to William Joseph Kiernan, Jr., of the graduating class for his essay entitled: "Nationalism and American Catholic Education in New England, 1918-1928." The second and third prizes were not awarded.

THE DEVALERA PRIZE IN HISTORY

The DeValera Purse, the income on \$1000, the gift of Daniel H. Coakley, to be awarded annually for the best essay on a subject selected from Irish History, was awarded to Edward Roy Mack, of the Class of 1955, for his essay entitled: "The Position and Function of the Senate in the Irish Constitution."

THE BELLARMINE PRIZE IN HISTORY

The Bellarmine Gold Medal, the gift of Mr. and Mrs. Edward J. McGratty, Sr., in memory of Patrick H. and Elizabeth L. McGratty, to be awarded annually for the best essay on Colonial America, was awarded to John Wolfgang Weiser of the graduating class for his essay entitled: "Benjamin Franklin in France 1777-1778."

THE BOURGEOIS PRIZE IN HISTORY

The Bourgeois History Prize, the income on \$1000, established in 1947 by Albert L. Bourgeois, Esq., of the Class of 1922, in memory of his late father, Pierre Bourgeois, and of his mother, Fabiola Bourgeois, to be awarded annually for the best essay on a subject relating to the French or their descendants in the United States, was awarded to Maurice Clement Duchaine of the graduating class for his essay entitled: "The Influence of the French in the Development of the Sacred Heart Parish of New Bedford."

THE REILLY MEMORIAL PRIZE

The James H. Reilly Memorial Purse, the income on \$600, founded by Joseph J. Reilly of the Class of 1904 and immediate relatives, to be awarded annually to the student contributing the best short story to The Purple, was awarded to William Joseph Kiernan, Jr., of the graduating class for his story "A Vote for the Socialist Candidate", published in the November issue.

THE KRANICH PRIZE

The Kranich Gold Charm, the gift of the Kranich Brothers, Incorporated, of Worcester, Massachusetts, to be awarded annually to the student contributing the best essay to The Purple, was awarded to William Joseph Kiernan,

AWARDS

101

Jr., of the graduating class for his essay entitled: "The Catholic Church in the United States", a series of five editorials published in the November —April issues.

THE PURPLE PRIZE

The Purple Purse, the gift of the College, to be awarded annually to the student contributing the best poem to the Purple was awarded to William Francis Edmonds of the graduating class for his poem, "Crisis", published in the March issue.

THE FRANK D. COMERFORD PRIZE

The Frank D. Comerford Silver Medal, founded in 1942 by the management and employees of the Boston Edison Company, to be awarded annually at Commencement Exercises to a student of the graduating class for excellence in public speaking, was awarded to Francis Xavier Kett.

THE PATRICK F. CROWLEY MEMORIAL PRIZE

The Patrick F. Crowley Purse, the income on \$1000, founded in July, 1947 by Bridget T. Crowley, in memory of her brother, Patrick F. Crowley, to be awarded annually for proficiency in debating and oratory, was awarded to John Killeen O'Connor of the graduating class.

THE O'CONNOR DEBATING PRIZE

The Joseph J. O'Connor Purse, income on \$1000, the gift of the late Joseph J. O'Connor of the Class of 1909, was awarded to the Senior Debating Team: John Killeen O'Connor and Michael John McNulty.

THE JOHN C. LAWLOR MEMORIAL PRIZE

The John C. Lawlor Gold Medal, the gift of the Class of 1911, to perpetuate the memory of Dr. John C. Lawlor of the Class of 1911, to be awarded annually to a letterman of the graduating class adjudged the outstanding student and athlete during the college course, was awarded to Earle Louis Markey.

THE LIEUTENANT WILLIAM PETER SULLIVAN, JR., MEDAL

The Lieutenant William Peter Sullivan, Jr. Medal, the gift of Mrs. William P. Sullivan, Jr., in memory of her late husband Lieutenant William Peter Sullivan, Jr., U. S. Naval Reserve, of the Class of 1939, to be awarded annually to the member of the varsity track team who, by vote of his fellow team members, is adjudged to have merited this award, was awarded to Philip Richard Sullivan of the graduating class.

THE NELLIE M. BRANSFIELD PRIZES

The Nellie M. Bransfield Award, founded in 1946, by the will of the late Nellie M. Bransfield, income on \$2000, to be awarded annually as prizes for excellence in elocution among the undergraduates, was awarded as follows: first prize to Nicholas John Loprete, Jr., of the Class of 1954; second prize to William Joseph McDonough of the Class of 1956.

THE CROMPTON SCIENTIFIC PRIZE

The Crompton Gold Medal, founded in August 1875, by George Crompton, Esq., for the best Scientific Essay submitted during the school year, was awarded to George Vincent Franks of the graduating class.

THE REVEREND WILLIAM F. HARTIGAN PRIZE

The Reverend William F. Hartigan Medal, founded in May, 1932, by Josephine C. Hartigan in memory of her brother, the Reverend William F. Hartigan, to be awarded annually to a student of the graduating class submitting the best essay on a subject in Religion, was awarded to Philip Richard Sullivan for his essay entitled: "The Hypostatic Union".

THE LEONARD PURSE

The Leonard Award, founded in 1951 by the will of the late Reverend John F. Leonard, to be awarded annually for proficiency in oratory, debating or like competition, was awarded to Robert James Meyer of the graduating class.

SCHOLARSHIPS

GENERAL INFORMATION

A limited number of scholarships are awarded annually to incoming and enrolled students from the income on founded scholarships. At times and to the amount that the College's financial position permits, this income from founded scholarships is supplemented by grants from College funds. A few scholarships, restricted by the donors to definite categories of applicants, offer awards to the amount of full tuition and partial or total expenses for board and room at the College. All other scholarships only grant full or partial tuition. As the College has up to the present no Loan Fund, loans from the College for the payment of expenses are not granted.

Incoming Freshmen may apply to the office of the Dean of Admissions for a scholarship application form, along with their request for an application form for admission. Applications for scholarships by incoming freshmen should be filed with the office of the Dean of Admissions not later than April 15.

Students already enrolled should obtain a scholarship application form from the Secretary to the President. This scholarship application form should be filed with the Secretary to the President not later than August 1. Transfer students are not eligible for scholarship assistance until they have completed one year of study at Holy Cross College.

Awards to incoming freshmen will give recognition to those candidates who have manifested exceptional proficiency in their academic and extracurricular achievements at the secondary school level and who without financial assistance would be unable to meet the expenses of a college education. The factors of promise of leadership, moral character and personality will also be considered. Scholarship applicants are required to take the January or March C.E.E.B. Scholastic Aptitude Test and arrange to have the test scores forwarded to the office of the Dean of Admissions.

Students already enrolled must attain a "B" average to qualify for a scholarship. Financial need, participation in extra-curricular activities, fidelity and loyalty to the traditions and ideals of Holy Cross are other factors that also will be considered.

All scholarships are granted on a year-to-year basis but will be renewed if the student continues to meet the requirements of the award. Application for the renewal of the scholarship for the succeeding year must be made not later than August 1. Freshmen should file their renewal application in writing with the office of the Dean of Admissions. Upperclassmen should file it in writing with the Secretary to the President.

The following types of scholarships will be found amongst those listed on the following pages:—

General Scholarships. These are open to all incoming freshmen and enrolled students. The amount of the award is the income on the gift of the donor.

Restricted Scholarships. These by the intention of the donor are restricted to definite categories of applicants who often must be from a definite locality, parish or high school. An applicant, who wishes to apply for a restricted scholarship, should make certain that he is eligible for this scholarship.

Competitive Scholarships. Some scholarships by the intention of the donor are awarded on the basis of a competitive examination. An applicant, who is eligible for and wishes to compete for one of these scholarships, may obtain information as to the time and nature of the competitive examination from the office of the Dean of Admissions. Only incoming freshmen are eligible for competitive scholarships.

Holy Cross College Scholarships. These are a limited number of tuition or other partial awards that are made from the College funds, at the times and to the total amount that the financial position of the College permits.

LIST OF SCHOLARSHIPS

The Governor Ames Scholarship. Income on \$1,000. Established in 1887 by Governor Oliver Ames.

The Eugene A. Bickford Scholarship. Income on \$5,000. Founded in October, 1932, from the estate of Mrs. Mary A. Magenis of Brookline, Mass., in memory of her brother, the late Eugene A. Bickford, '96. The annual income on the \$5,000 to provide for the education of a deserving student under such conditions and regulations as imposed by the Faculty of the College.

The Rev. Charles E. Burke Scholarship. Income on \$3,000. Established in 1895. Appointment to be made from residents of St. Francis Parish, North Adams, Mass.

The James M. Burke Scholarship. Income on \$11,662.69. Established April 1, 1950 from the Estate of William H. Burke. The beneficiary is to be selected by the Trustees of the College.

The Robert J. Cairns Memorial Fund. Established September 24, 1953 by bequest from the estate of Alfred F. Finneran. Income on \$5,000. for scholarship aid to worthy students.

The Thomas Callaghan Scholarship. Income on \$2,000. Founded in 1914 by the late Thomas Callaghan of Leicester, Mass., limited to residents of Worcester County, "preference to be given to those preparing for the priesthood."

The Honorable James Bernard Carroll Scholarship. Income on 500 shares of Western Massachusetts Companies. Founded in 1939 by Mrs.

James Bernard Carroll as a memorial of her husband, the late Justice James Bernard Carroll of the class of 1878. Restricted to graduates of St. Michael's Cathedral High School, Springfield, Massachusetts. Selection to be made by the Very Reverend Rector of Holy Cross College and the Reverend Rector of St. Michael's Cathedral, Springfield, on candidate's character, scholarship and extracurricular achievements.

The Connecticut Valley Alumni Scholarship. Income on \$1,725. Established in 1912 by the Alumni of Connecticut Valley.

The Maurice Connor Memorial Scholarship. Income on \$16,000. Established in 1929 by Mr. John T. Connor in memory of his brother, Maurice. The intention of the donor is to provide, for one boy, board, room, tuition and fee charges, as far as the income will provide them. The single beneficiary is to be chosen by the Pastor of St. Mary's Church, Westfield, Mass.

The Thomas Costello and Anna Costello Scholarship. Income on \$5,000. Established December 9, 1947, by bequest of Susan A. Costello in memory of her parents. Income to be used to aid a student who lacks sufficient financial means for his education and who has expressed the intention of entering the priesthood.

The Crowley Family Memorial Scholarship I. Income on \$12,000. Established July 2, 1947, by bequest of Miss Bridget T. Crowley of Springfield, Mass. Beneficiary to be selected by competitive examination and is open to students of the Parochial and Public High Schools of Springfield, Mass., who are morally, mentally and physically worthy and competent and who show promise of ability, but who have such limited financial means that, if not aided by a scholarship, would be unable to attend college.

The Crowley Family Memorial Scholarship II. Income on \$12,000. Established in 1947 by bequest of Miss Bridget T. Crowley of Springfield, Mass. Conditions same as the Crowley Family Memorial Scholarship I.

The Crowley Family Memorial Scholarship III. Income on \$12,000. Established in 1947 by bequest of Miss Bridget T. Crowley of Springfield, Mass. Conditions same as the Crowley Family Memorial Scholarship I.

The Right Rev. Monsignor Daniel F. Curtin Scholarship. Income on \$10,000. Established in 1921 by the Rt. Rev. Monsignor Daniel F. Curtin, Glens Falls, N. Y., to be appointed by the pastor of St. Mary's Church, Glens Falls, N. Y.

The Daniel T. Devine Scholarship. Income on \$15,000. Established in October 1945 from the estate of Mary F. Devine in memory of her brother, Rev. Daniel T. Devine. To be awarded as a result of competitive examination to the member of the graduating class of St. Mary's Parochial School, Milford, Mass., who has attended said high school for four years and who has been a member of St. Mary's Parish throughout his high school course.

The Theodore T. and Mary G. Ellis Scholarship Fund. Founded in 1941 by the estate and through the generosity of the late Theodore T. and Mary G. Ellis. From the income of this fund, several scholarship awards of full or partial tuition are annually granted to residents of the City of Worcester.

The "In Memory of David Goggin" Scholarship. Income on \$1,000. Founded in 1925 by Mrs. Catherine M. Goggin, in memory of David Goggin. Preference to be given a relative.

The Monsignor Griffin Scholarship. Income on \$1,000. Established in 1895, limited to residents of St. John's Parish, Worcester, Mass.

The Mary A. Haberlin Foundation. Income from fund of \$29,500. to be used for worthy students chosen by the President or Faculty of the College.

The John H. Halloran Scholarship I. Income on \$12,000. Established in 1909 by Mr. John H. Halloran of New York, as a memorial of his brother, the late William J. Halloran, of Worcester, competition open to the country.

The John H. Halloran Scholarship II. Income on \$12,000. Established in 1921 by Mr. John H. Halloran of New York, as a memorial of his brother, the late William J. Halloran, of Worcester. Selection to be made from the students of the public and parochial schools of Northampton, Mass., by means of competitive examinations.

The Rev. Jeremiah J. Healy Scholarship I. Income on \$1,500. Founded in 1912 by the Rev. Jeremiah J. Healy, of Gloucester, Mass., for a candidate for the priesthood worthy of financial aid.

The Rev. Jeremiah J. Healy Scholarship II. Income on \$1,500. Same as the "Rev. Jeremiah J. Healy Scholarship I."

The Richard Healy Scholarship. Income on \$8,000. Established in 1908 by Mr. Richard Healy of Worcester, open to competition for residents of Worcester County regardless of creed.

The Mr. and Mrs. Richard Healy Scholarship. Income on \$12,000. Established in 1916 by Mr. and Mrs. Richard Healy of Worcester, for benefit of a direct relative of donors.

The Rev. Frederick W. Heaney, S.J. Scholarship. Income on \$2,500. Established in 1920 by Miss Lillian Heaney, in memory of her deceased brother, the Rev. Frederick W. Heaney, S.J.

The John W. Hodge Scholarship. Income on \$4,466.20. Established in 1946 by a bequest from the late John W. Hodge to aid some worthy Catholic boy from Cambridge, Mass., the terms and conditions of which are to be fixed and regulated by the College.

The John T. Holland, '17, Memorial Scholarship. Founded January 2, 1954 by gift from Matthew M. Berman. Income on \$4,000. to be used for worthy students selected by the President of the College.

The Holy Cross College Scholarships. These are a limited number of tuition or other partial awards that are made from the College funds, at the times and to the total amount that the financial position of the College permits.

The John Collins Hurley Scholarship. Established April 28, 1953 by bequest of \$700. from the estate of Rose A. McCaffrey. For a worthy student.

The Warren Joseph Hurley Scholarship. Income on \$5,000. Established in 1929 by Mrs. Jeremiah J. Hurley in memory of Warren Joseph Hurley, ex-'29, for the benefit of one or more worthy students aspiring to the priesthood. Selection to be made by the President of the College.

The "In Memoriam" Scholarship. Income on \$8,000. Established in 1915 by an alumnus of the College for a deserving student.

The Rev. Michael H. Kittredge Scholarship. Income on \$5,000. Founded in 1917 by Rev. Michael H. Kittredge, '75.

The Massachusetts State Council Knights of Columbus Scholarship Fund. Income on \$5,000. Founded in 1937 by the Massachusetts State Council Knights of Columbus; open to members and sons of members of the Knights of Columbus residing and having their membership in the Order in Massachusetts. Award to be made by competitive scholastic examinations under the administration of the College of the Holy Cross.

The Patrick W. Lally Memorial Scholarship. Income on \$5,221.60. Established in March 1945 from the estate of James Lally to be awarded to a worthy graduate of St. Mary's High School, Milford, Mass., who will be selected by the President of the College of the Holy Cross.

The Michael J. Lawlor Scholarship. Income on \$5,000. Established in February, 1949, by bequest from the late Retta M. Lawlor. Income to be used to aid a bright and needy student, resident of Waterbury, Conn., who, in the opinion of college authorities, shall be deserving of financial assistance.

The John J. Leonard Scholarship of the M.C.O.F. Income on \$6,000. Founded in 1926 and restricted to members, or sons of members, of the M.C.O.F., selection to be made by competitive examinations.

The Rev. John G. Mahoney, S.J., a Former Professor at the College and James E. Mahoney, '10, Memorial Scholarship. Income on \$20,000. Founded in 1946 by Mrs. Edward C. Donnelly in memory of her brothers; to be awarded to a deserving student studying for the degree of Bachelor of Arts in the Classical Course who is to be selected by the President of this College.

The Henry Vincent McCabe Scholarship. Income on \$5,000. Established in 1916 by the late Mary McCabe of Providence, R. I., for a deserving student.

The Rev. Denis F. McCaffrey Scholarship. Established September 29, 1953 by bequest of \$700. from the estate of Rose a McCaffrey. For a worthy student.

The Rev. David F. McGrath Scholarship I. Established in 1907 by the Rev. David F. McGrath, '70, beneficiary to be selected by competitive examinations. Restricted to graduates of St. Mary's Parish School, Milford, Mass., if there be more than one eligible candidate. If but one such, graduates of Milford Public High School may be admitted to competition; if but one candidate from both schools anyone otherwise eligible in the State to be admitted to competition. The beneficiary will receive board, lodging and tuition for an academic year of two semesters. All other expenses must be met by the one holding the scholarship.

The David F. McGrath Scholarship II. Established in 1920 by the Rev. David F. McGrath, '70; conditions same as the "Rev. David F. McGrath Scholarship I."

The David F. McGrath Scholarship III. Established in 1920 by the Rev. David F. McGrath, '70; conditions same as the "Rev. David F. McGrath Scholarship I."

The Monsignor John W. McMahon Scholarship. Income on \$5,000. Founded in 1938 under provision of the will of Rt. Rev. Msgr. John W. McMahon, '67, to give scholarship aid to a Holy Cross student to be designated by the Reverend Pastor of St. Mary's parish, Charlestown, Boston, Massachusetts, preference being given to students coming from said St. Mary's parish.

The Patrick J. Murphy Scholarship. Income on \$1,500. Established in 1914 by Mrs. Ellen M. Murphy, as a memorial to her husband, the late Patrick J. Murphy, Worcester, Mass.

The Monsignor Richard Neagle Scholarship. Income on \$35,000. Founded in 1943 by His Excellency the Honorable Alvan T. Fuller, former Governor of the Commonwealth of Massachusetts, in memory of the late Right Reverend Monsignor Richard Neagle of the Class of 1873, to assist boys qualified, in the opinion of the faculty, but who otherwise could not afford such an expenditure as would be necessary to enjoy the educational and religious advantages of the College of the Holy Cross.

The O'Driscoll Scholarship. Income on \$3,000. Established in 1874, for two students (limited to residents of the City of Worcester), who are candidates for the priesthood and selected by the Bishop of Worcester or his delegate.

The Rev. Daniel H. O'Neill Scholarship I. Income on \$1,000. Established in 1895, limited to residents of St. Peter's Parish, Worcester, Mass,

The Rev. Daniel H. O'Neill Scholarship II. Income on \$1,500. Established in 1908, limited to the residents of the City of Worcester.

The Rev. Dr. Patrick B. Phelan Scholarship I. Income on \$8,000. Established in 1917 by Rev. Dr. Patrick B. Phelan, '69; open to competition for graduates of the Sacred Heart School, Holyoke, Mass.

The Rev. Dr. Patrick B. Phelan Scholarship II. Income on \$8,000. Same as "Rev. Dr. Patrick B. Phelan Scholarship I."

The Rev. John J. Power Scholarship. Income on \$1,500. Established in 1907 by the late Rev. John J. Power, D.D., limited to residents of St. Paul's Parish, Worcester, Mass.

The Mary A. Prendergast Scholarship. Income on \$5,000. Founded in 1945 under the will of the late Mary A. Prendergast for deserving orphan students.

The Precious Blood Educational Fund. Income from a gift of \$720.24 to be used for a candidate for the priesthood.

The "Quid Retribuam" Scholarship. Income on \$8,000. Established in 1907 by a friend of Education in gratitude for Divine favors; if not filled by founder, competitive examinations will be held.

The Patrick W. Rafferty Scholarship. Income on \$2,000. Established in 1920 and open to competition among deserving students of the City of Worcester.

In Memory of Dennis M. and Josephine F. Reardon Scholarship. Established January 11, 1952 by bequest of \$10,575.39 from the estate of Josephine F. Reardon. Income to be used to aid a worthy student preparing for the holy priesthood.

The John Reid Scholarship. Income on \$1,500. Established in 1894, limited to residents of Worcester.

The Reilly Memorial Scholarship. Income on \$1,000. Founded in 1922 by the late Joseph J. Reilly, '04.

The Mary J. Robinson Scholarship. Income on \$11,297. Established in 1943 by the late Mary J. Robinson in memory of her mother and father and brothers to assist deserving young men of the Roman Catholic Faith in obtaining a collegiate education at the College of the Holy Cross.

The Rev. William H. Rogers Scholarship. Income on \$10,000. Established in 1918 by Rev. William H. Rogers, '68.

The Hon. John E. Russell Scholarship. Income on \$1,500. Established in 1907 by a Friend of the College.

The Elizabeth Spang Scholarship. Income on \$5,000. Founded in 1936 by the will of Elizabeth Spang of West Haven, Connecticut. This income to be used toward the education of a "student of Holy Cross College whom the governing body of said College may deem to be in need of financial assistance for his college work and worthy of said scholarship."

In Memory of Helen M. and John F. Tinsley Scholarship. Established November 20, 1953 by bequest of \$55,000. from the estate of John F. Tinsley. Income to be used to assist worthy students selected by the President of the College.

Union Carbide Scholarships. Offered by the Union Carbide Educational Fund of the Union Carbide and Carbon Corporation, these scholarships offer deserving students who are interested in a business career the complete cost of tuition for a full, four-year academic course. In addition, they provide reasonable allowances for the necessary books and required fees.

The Rev. Robert Walsh Scholarship. Income on \$1,000. Established in 1895, limited to residents of the Immaculate Conception Parish, Worcester, Mass.

The Stephen W. Wilby Scholarship. Income on \$6,262.06. Founded by the Naugatuck Valley Alumni Association and friends in Connecticut.

COLLEGE ORGANIZATIONS

THE LEAGUE OF THE SACRED HEART

The League of the Sacred Heart was established at the College on the first of November, 1888. It has ever since been a most efficacious means of propagating among the students the practice of a most tender devotion to the Sacred Heart of Our Lord.

THE SODALITY OF OUR LADY

The Sodality of Our Lady was organized on the eighth day of December, 1844, and aggregated to the Roman Prima Primaria on the tenth day of April, 1846, with the title of the Immaculate Conception, and under the patronage of St. Aloysius. In the beginning, it was alike for the boarders and the day students; but later, after the establishment of a distinct sodality for the day students, it became the exclusive sodality for the boarders. Like any sodality of Our Lady, it has for its object the fostering of filial devotion to the Mother of God and the practice of virtue and piety among its members.

THE DAY STUDENTS' SODALITY

This Sodality of Our Lady was organized as a separate sodality for the benefit of the day students in May, 1903, and aggregated to the Roman Prima Primaria on the first day of May, 1904, with the same title of the Immaculate Conception as the boarders' sodality, but under the patronage of the Holy Angels. It has the same object in view as the boarders' sodality of Our Lady.

ST. JOHN BERCHMAN'S SANCTUARY SOCIETY

The St. John Berchman's Sanctuary Society has for its object the fostering of a special devotion in the assisting at the altar in all religious ceremonies.

THE B. J. F. DEBATING SOCIETY

Organized in 1849 in honor of the Founder of Holy Cross College, the Most Reverend Benedict Joseph Fenwick, this society, in the century of its existence, has a tradition of excellence in the art of public speaking. It carries on its meetings in the well-appointed Leonard Debating Hall. It supports an extensive schedule of House, Lecture, Radio and Inter-Collegiate Debates.

Membership in the B. J. F. Debating Society is usually drawn from the Junior and Senior Classes.

COLLEGE ORGANIZATIONS

111

FRESHMAN AND SOPHOMORE INTRAMURAL DEBATING

Regular inter-class sectional meetings of these two organizations give the Freshmen and Sophomores an opportunity for basic training in the preparation of debate material, clear thinking and accurate, polished expression. Student interest has been enlivened by the healthy rivalry current among the respective class sections.

THE MATHEMATICS CLUB

The Mathematics Club was established in 1946. It holds meetings twice monthly to discuss topics in advanced undergraduate mathematics. The purpose of the club is to promote the study of pure and applied mathematics.

THE DRAMATIC SOCIETY

The Holy Cross Dramatic Society has been functioning since the establishment of the College. It sponsors a varied program in the production of Shakespeare, modern drama and original one-act plays.

THE AQUINAS CIRCLE

The Aquinas Circle is an organization of Seniors and Juniors interested in further study and discussion of philosophical problems and their correlation with modern thought in science and literature. The Circle meets twice a month.

THE CROSS AND SCROLL CLUB

The Cross and Scroll Club, originally formed as the Hellenic Academy for the promotion of interest in classical studies, has through the years expanded its aims to include topics of Literature, Art and General Culture. Besides its group meetings the Club sponsors public lectures pertinent to Christian Culture and Education.

THE MUSICAL CLUBS

Two separate organizations foster and develop musical talent among the students — the College Glee Club and the College Orchestra and Band. The purpose of the Glee Club is to instill and promote among its members a love and appreciation of the truly beautiful in music through the medium of choral singing. A program of concerts throughout the year is an incentive for enthusiastic interest. Students participating in the activities of the College Orchestra and Band receive valuable experience in orchestral work. For public concerts this organization collaborates with the Glee Club.

THE COLLEGE CHOIR

The College Choir was organized to assist at Chapel Services and to promote devotion by acquainting students with the treasury of Church music.

THE MODERN LANGUAGE ACADEMIES

I. The French Academy, open to all students especially interested in the French language, was organized to supplement the work of the classroom. It strives to attune the ear to the recognition of the spoken word, to facilitate conversation, increase appreciation of French literature, classical and modern, and help students who, though not taking French, still retain an interest in the language. As means to these aims, the Academy presents essays on literary topics, familiar causeries on daily events, illustrated lectures and travelogues, debates, brief dramatic presentations from the French classics, as well as original compositions of the members.

II. Similar to the French Academy in purpose, function and scope, language academies are also conducted in German and Spanish.

THE CROSS AND CRUCIBLE CHEMISTS' CLUB

This club is devoted to the advancement of chemistry and the development of social and professional relations among its members. The club was founded in 1927 and reorganized in 1947. It is open to all undergraduate students of chemistry. The club is a Chapter of Student Affiliates of the American Chemistry Society and publishes the Hormone, a monthly chemical magazine for undergraduates.

THE LABOR PROBLEMS ACADEMY

The Labor Problems Academy, open to students majoring in Economics, was organized in 1935 to encourage the study of Catholic principles applicable to the labor problems in the United States. This academy was organized with a threefold purpose: to stimulate personal research and individual interest in the historical development of, and contemporary relationships among capital, management, labor, and the community in these problems; to obtain and classify scientific and unbiased pamphlets, periodicals, and similar reference materials for use by the Faculty, members of the Debating Societies and Lecture Teams, members of the Academy, and other undergraduates interested in these problems; to engender an appreciation of the pronouncements upon the moral relationships between capital and labor contained in Papal Encyclicals.

THE HISTORY ACADEMY

The History Academy, composed of instructors and students in history, has for its object the increase of interest in the study of history. It holds weekly meetings at which are read and discussed essays on various topics taken from the field of history.

THE MISSION UNIT

The Holy Cross Unit of the Mission Crusade was established in 1921. Relief of the Missions is encouraged by donations of the students. Students contribute to foreign and home missions large sums of money, large quantities of Catholic papers, altar supplies, books and clothing.

THE PURPLE KEY

It is the purpose of this organization to foster devotion, loyalty, and enthusiasm for Alma Mater. The Purple Key sponsors student activities, plans and conducts student manifestations of the spirit of Mount St. James and always endeavors to promote the interests of the students in the affairs of their college life.

RADIO WORKSHOP - STATION WCHC

The Campus Radio Station WCHC, which began a formal broadcasting schedule on December 6, 1948, is operated entirely on an extra-curricular basis by student members of the Radio Workshop. WCHC provides a talent outlet and radio experience for hundreds of students in its various departments: station management, programming, production, announcing, radio dramatics, sports, news, writing, music, commercial departments and other functions common to commercial radio stations.

INTRAMURAL ATHLETICS

Perhaps the most flourishing and popular extra-curricular activity on the Hill is the Intramural sports program. The great majority of students who are not engaged in varsity competition take some part in intramural sports. Teams are organized from among the Day Students and groups from each corridor of the Residence Halls. Competitive tournaments are played in football, basketball, baseball, etc. The intramural sports provide healthful exercises and plenty of fun; cement friendships and develop many positive traits of good character and personality.

HOLY CROSS ATHLETIC ASSOCIATION

The object of the Athletic Association is to promote the athletic interests of the College, and to discuss and determine matters of the management pertaining to the welfare of collegiate and intercollegiate sports.

Rev. Joseph A. Glavin, S.J.	Faculty Adviser
EUGENE F. FLYNN, B.A.	Director
WILLIAM J. O'CONNELL, B.A., M.A	Assistant Director
Edward N. Anderson, B.S., M.D.	Coach of Football
JAMES M. HARRIS, B.S.	Assistant Coach of Football
ELMER F. MADAR, B.A., M.S.	Assistant Coach of Football
LESTER H. SHEARY, B.A.	
JOHN P. WHALEN, B.S.	Assistant Coach of Baskethall
JOHN J. BARRY	Coach of Baseball
BARTHOLOMEW F. SULLIVAN	Coach of Track; Trainer
CHARLES F. DONNELLY	Coach of Golf
ALBERT D. RIOPEL, B.A.	Freshman Coach
WILLIAM C. SAMKO, B.S., M.S.	Assistant Trainer
WALTER M. MULVIHILL, B.A., M.D	

HONOR SOCIETIES Many Andrews

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ALPHA SIGMA NU

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(Holy Cross Chapter)

es respiritores " On Monday evening, April 15, 1940, at a formal dinner in Kimball Hall, the Holy Cross Chapter of Alpha Sigma Nu was inaugurated and the first members initiated. Alpha Sigma Nu is a National Honor Society with chapters in various Jesuit Colleges and Universities throughout the United States. It is a society organized to honor students who have distinguished themselves in scholarship, service and loyalty to their College; to promote the interests of their College; to foster all praiseworthy student activity; to unite those alumni who most fully understand and appreciate the ideals of Jesuit Education and who seek to realize those ideals in themselves and others. It is the function of this society as well to be on the alert for any influences detrimental to the welfare of the College and to take suitable action to curb such influences. Additional members are drawn from the Junior Class and are nominated by the local chapter which also certifies the qualifications of the nominees with respect to scholarship, service and loyalty to the College. Those who are approved by the Dean and the President of the College are elected members and initiated into the organization.

The President of the College is empowered to appoint for membership three additional students for exceptional distinguished service.

Candidates qualify scholastically by ranking in the upper twenty-five percent of their class.

The following new members were elected to the Holy Cross Chapter, March 10, 1954.

Paul J. Cannon
Louis A. Craco, Jr.
James L. Fahey

Robert J. Ghisays William V. Kane R. Joseph Schork, Jr.

Lewis B. Songer

DELTA EPSILON SIGMA

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(Alpha Iota Chapter)

On Monday evening, June 9, 1941, at the Senior Class dinner in Kimball Hall, the Holy Cross Chapter of Delta Epsilon Sigma, the national Scholastic Honor Society for students and graduates of Catholic Colleges and Universities, was inaugurated and the first members initiated. This society was first organized in April, 1939, its constitution adopted in March, 1940, and to date has more than thirty-two chapters in Catholic Colleges and Universities. Delta Epsilon Sigma is constituted to give recognition and encouragement to high scholarship among students of Catholic Colleges and Universities. Its purpose features Academic Excellence. Student membership is drawn from ten percent of the Senior Class with scholastic honor rating.

The following new members were elected to the Holy Cross Chapter on March 1, 1954.

William F. Edmonds, Jr.

Joseph P. Kerwin

Frank X. Kett

Philip R. Sullivan

Edward J. Lynch, Jr.

Donald H. Weisbecker

William J. White A with the Late and the

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COLLEGE PUBLICATIONS

THE HOLY CROSS PURPLE

The Holy Cross Purple is a monthly magazine published by the students of the College. Its aim is to cultivate a high literary taste among the students by exercising them in both critical and creative compositions.

THE TOMAHAWK

The Tomahawk, the weekly newspaper of the College, first appeared during the academic year 1924-1925. Its purpose is to secure a firmer bond among the undergraduates, telling the important happenings of the life on the Hill.

THE PURPLE PATCHER

The Purple Patcher, published annually by the Senior Class, is a chronicle of the activities of the Class during its four years' stay on the Hill.

THE HORMONE

The Hormone is normally published eight times a year by the Department of Chemistry. It provides a medium of scientific expression for chemistry students; it records work of a progressive nature done in the department; it supplements the textbooks with timely articles of general interest to the student of chemistry; and it records the abstracts of departmental seminars and theses.

LE CROISE

Le Croise, a semi-monthly French newspaper, is edited and published by the members of the French Academy. Its chief aim is to offer to the students of the Academy an opportunity to acquire facility in the reading and composition of modern French.

THE ALUMNUS

The Alumnus, published five times yearly by the Holy Cross College Alumni Association and edited by the Executive Alumni Secretary, is two-fold in its purpose: first, to secure a firmer bond among the graduates; secondly, to serve as a nexus between the Alumni and the College.

Jesuit Educational Association

COLLEGES AND UNIVERSITIES

Alabama Spring Hill College, Spring Hill

California Loyola University of Los Angeles

Santa Clara University, Santa Clara

Regis College, Denver

University of San Francisco

Colorado

Connecticut Fairfield University, Fairfield

District of Columbia Georgetown University, Washington

Illinois Loyola University, Chicago

Louisiana Loyola University, New Orleans

Maryland Loyola College, Baltimore

Massachusetts Boston College, Chestnut Hill

College of the Holy Cross, Worcester

Michigan University of Detroit, Detroit

Missouri Rockhurst College, Kansas City

St. Louis University, St. Louis

Nebraska The Creighton University, Omaha

New Jersey St. Peter's College, Jersey City

New York Canisius College, Buffalo

Fordham University, New York City

Le Moyne College, Syracuse

Ohio John Carroll University, Cleveland Xavier University, Cincinnati

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Pennsylvania St. Joseph's College, Philadelphia University of Scranton, Scranton

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Washington Gonzaga University, Spokane Seattle University, Seattle

Wisconsin Marquette University, Milwaukee

INDEX

Acceptance Deposit, 30, 36 Accounting, Courses in, 45-48 Act of Incorporation, 14-16 35, 39, 41 Administration. Officers of, 6 Admission to the College, Advanced Standing, 37 Freshman Class, 33-37 35, 39, 41 Aerodynamics, Course in, see Physics Affiliations, 2 35, 39, 43 Air Force ROTC Unit, 32, 50-53 Air Science, Courses in, 50-53 35. 39. 44 Athletic Association, 114 Attendance at College Exercises, 28 35, 39, 41 Awards, 1953, 99-102 AND SOUTH OF LAND Bachelor of Arts, see Degrees Bachelor of Science, see Degrees 35, 39, 44 Bills, College, Payment of, 30 Deferred Payment of, 30 Biology, Courses in, 53-55 Buildings, 18-20 Calendar, 5 Chapel, 19 Chemistry, Graduate Department of, 90-92 Chemistry, Undergraduate courses in, 55-58 Graduate Courses in, 91, 92 Class Hours, 27 College, History of, 17 College Year, 27 Commissions, 1953, Naval and Marine Examinations: Reserves, 98 Contents, 3 Corporate Title, 2 Correspondence, Concerning Admissions, Courses of Instruction, 45-92 Credit Hours, 28 Credits, Transcript of, 29 Curriculum, see Courses of Instruction Boarding Students, 30 Degrees:

Bachelor of Arts Honors, 34, 38, 40

Bachelor of Arts non-Honors, 35, 38, 40 Bachelor of Science in Biology, Bachelor of Science in Business Administration, 35, 39, 42 Bachelor of Science in Chemistry, Bachelor of Science in Education, Bachelor of Science in History, Bachelor of Science in Mathematics, Bachelor of Science in Physics, - 35, 39, 42 Bachelor of Science in Social Sciences, Master of Science in Chemistry, 94-96 Degrees conferred, 1953, 93-98 Deposits for Breakage, 31 Deposits for Rooms, 31 Discipline, System of, 25 Dormitory, Accommodations, 18, 19, 36 Economics, Courses in, 45-50 Education, System of, 23-26 Courses in, 61-62 Employment, Student, 27 English, Courses in, 63-66 Entertainment, 27 Entrance Requirements, see Admission Ethics, Courses in, see Philosophy Admission by, 36 Scholarship Examinations, 36 Term Examinations, 28 Expenses, College, see Fees Extra Courses, 28, 31 Faculty, see Officers of Instruction Fees, College, 30-32 Acceptance, 30, 36

Day Students, 30

INDEX

Graduation, 30
Laboratory, 31
Late Registration, 27, 30
Matriculation, 30
Payment of, 30
Radio, 31
Retake Examinations, 30
Room Deposit, 31
Transcript of Credits, 29
Tuition, 30
Veterans, 32

Fellowships in Chemistry, 92 (1)
Fine Arts, Courses in, 66
French, Courses in, 71-72
Freshman Week Program, 37

German, Courses in, 72-74 Grading, System of, 28 Greek, Courses in, 59 Gymnasium, 20

History, Courses in, 67-69 Honor Societies, 114, 115 Hospital Care, 26

Infirmary, 26 Information, General, 26-29 Instruction, see Courses Instructions, Officers of, 7-13

Jesuit Educational Association, 117

Latin, Courses in, 60 Library, 19 Library, Donors to, 20-22 Logic, see Philosophy

Mathematics, Courses in, 83-85
Master of Science Degree, 90
Mechanics, Courses in, see Physics
Medical Care, 26
Medical Certificate, 33
Moral Training, 23-24
Museum, see Library
Music, Courses in, 66

Naval R.O.T.C. Unit, 32, 75-78 Naval Science, Courses in, 77

Officers of Instruction, 7-13 Organizations, College, 110-113

Philosophy, Courses in, 78-80 Physics, Courses in, 81-83 Placement Bureau, 26 Political Science, Courses in, 69-71 Psychology, Courses in, see Philosophy Publications, 116

Registration, 27
Religious Training, 23-24
Religion, Courses in, 85-87
Reports of Attendance and Standing, 28
Requirements for Degrees, see Degrees
Requirements for Entrance,
see Admission
Rooms, see Dormitory Accommodations

Scholarships, 36, 103-110
Scholastic Regulations, 28
Social Hall, 20
Sociology, Courses in, 87-89
Spanish, Courses in, 74
Student, Counsellor, 25
Student Employment, 27
Student Health Service, 26

Summer School Work, Credit for, 29

Room and Board, Fee for, see Fees

Teaching, Method of, 23
Thesis Requirement:
For Bachelor's Degree, 39
For Master's Degree, 90, 92
Transcript of College Credits, 29
Trustees, Board of, 6
Tuition, see Fees

Vacations, 27 Veterans, 37

Withdrawals from College Voluntary, 29 For Scholastic Reasons, 28

BEQUESTS

Gifts to the college may take the form of funds for the establishment of scholarships or professorships; or the foundation of medals and other prizes; of additions to the material equipment; of contributions to the general fund, or may be undesignated. Those desiring to make a bequest to the College of the Holy Cross in their wills may be helped by the following suggested form.

LEGAL FORM OF BEQUEST

I give (devise) and bequeath to the Trustees of the College of the Holy Cross, a corporation under the laws of the Commonwealth of Massachusetts, and located in the City of Worcester, Massachusetts, and their successors forever, the sum of

. dollars

(or otherwise describe the gift) for its general corporate purpose (or name a particular corporate purpose).

INQUIRY BLANK

Correspondence should be addressed as follows:

Regarding admission to the Freshman Class,

TO THE DIRECTOR OF ADMISSIONS.

Regarding admission to all other classes or as a special student,

TO THE DEAN OF THE COLLEGE.

Regarding admission to the graduate department of Chemistry,
TO THE CHAIRMAN OF THE CHEMISTRY DEPARTMENT.

Candidates for admission to the Freshman Class should submit their applications promptly upon completion of the first semester of their senior year.

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