



**MARIST
COLLEGE**

POUGHKEEPSIE, N.Y.

1961 - 1962

CATALOG

GROVER 1-3240

POUGHKEEPSIE, NEW YORK

1961-1962

COLLEGE

MARIST

A Liberal Arts
College for Men



ACADEMIC CALENDAR

1961

FALL SEMESTER

September 11, 12	Monday Tuesday	Registration for day division, upperclassmen 9 a.m. to 4 p.m.
September 13, 14	Wednesday Thursday	Registration for evening division, 7 p.m. to 9 p.m.
September 13, 14, 15	Wednesday Thursday Friday	Orientation program and registration for all new day students at 9 a.m. each day.
September 18	Monday	Classes begin.
September 30	Saturday	Last date for late registration and change of course.
October 12	Thursday	Columbus Day—Holiday
October 12, 13, 14	Thursday Friday Saturday	Senior Retreat, Day Division
October 21	Saturday	Last date for dropping course without pen- alty of failure.
November 1	Wednesday	All Saints Day—Holiday
November 7	Tuesday	Election Day—Holiday
November 8	Wednesday	Mid-term examinations begin.
November 22	Wednesday	Thanksgiving recess begins after last class
November 27	Monday	Classes resume
December 8	Friday	Immaculate Conception—Holiday
December 16	Saturday	Christmas recess begins after last class
January 3	Wednesday	Classes resume
January 22	Monday	Semester exams begin for all classes
January 30	Tuesday	Semester ends

1962

SPRING SEMESTER

February 5	Monday	Classes begin
February 12	Monday	Lincoln's Birthday—Holiday
February 17	Saturday	Last date for late registration and change of course.
March 3	Saturday	Last date for dropping course without pen- alty of failure.
March 19	Monday	Mid-term examinations begin.
April 18	Wednesday	Easter recess begins after last class
April 30	Monday	Classes resume
May 28	Monday	Semester exams begin for all classes
June 4	Monday	Semester ends
June 10	Sunday	Sixteenth Commencement

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While the Announcements presented in the following pages are as accurate as possible, the College reserves the right to make such changes as circumstances require.

BOARD OF TRUSTEES

Chairman of the Board

Brother John L. O'Shea, F.M.S.

Members of the Board

Brother L. Vincent Wall, F.M.S.

Brother John A. Tardif, F.M.S.

Brother Nilus V. Donnelly, F.M.S.

Secretary

Brother Thomas P. Brennan, F.M.S.

Treasurer

Brother Rene N. Gregoire, F.M.S.

President of the College

Brother Linus R. Foy, F.M.S.

BOARD OF ADVISORS

John J. Gartland, Jr. *Chairman of the Board*
Corbally & Gartland

Brother Linus R. Foy, F.M.S. *ex officio*
President of the College

Brother Paul Stokes, F.M.S. *ex officio*

George Bingham
Radio Station WKIP

James F. Brehm
Daystrom Electric Division of Daystrom Inc.

Laurence T. Deabler
International Business Machines Corporation

John Desmond
C Schatz Manufacturing Company

James A. Dwyer
Rondout National Bank

Bernard Feeney, Sr.
Reliance Marine Transportation and Construction Corporation

John J. Mulvey
Attorney

Bernard Reifler
Electra Supply Company

Bernard G. Schamberg
Wire-O Corporation

Richard Small
Western Printing & Lithographing Company

James J. Toomey, M.D., F.A.C.S., F.I.C.S.
Physician

Cornelius F. Weiss, Jr.
International Business Machines Corporation

FACULTY

Russell Adem, *Lecturer in Mathematics*

B. Elect. E., M.A., University of Detroit

Fernando Ambrosini, *Lecturer in German*

E.E. Technikum Winterthur, Switzerland

Brother Augustine Joseph, *Instructor in English*

B.A., Marist College

M.A., St. John's University

Roscoe Arthur Balch, *Assistant Professor of History*

B.B.A., Seattle University

M.A., Ph.D., University of Washington

Brother Joseph L. Belanger, *Instructor in French*

B.A., Marist College

M.A., St. John's University

M.A., Middlebury College

Salvatore D. Catalano, *Lecturer in Economics*

BBS., St. Bernardine of Siena College

Brother Dennis Damian, *Lecturer in Biology*

B.A., Marist College

M.S., Fordham University

Brother Brian H. Desilets, *Assistant Professor of Physics*

B.A., Marist College

M.S., St. John's University

M.A., New York University

On leave during the 1961-1962 academic year.

Brother E. Jude Driscoll, *Instructor in Mathematics*

B.S. in Ed., Fordham University

M.A., Columbia University

Brother Linus R. Foy, *Lecturer in Mathematics; President*

B.A., Marist College

M.S., St. John's University

LL.D., Iona College

Brandt M. Griffing, *Lecturer in Physics*

B.M.E., Cornell University

Brother Vincent Hall, *Instructor in Mathematics*

B.S., M.S., Fordham University

- William Heyden, *Lecturer in English*
A.B., Queens College
M.A., University of Michigan
- George B. Hooper, *Assistant Professor of Biology*
B.S., Seton Hall University
A.M., Ph.D., Princeton University
- Brother Joseph Maura, *Instructor in Mathematics*
B.A., Marist College
- Brother Joseph Robert, *Associate Professor of Latin*
B.S. in Ed., M.A., Fordham University
- Brother Daniel Kirk, *Assistant Professor of Education*
B.A., Marist College
M.A., Ph.D., St. John's University
- Brother Richard A. LaPietra, *Instructor in Chemistry*
B.A., Marist College
Ph.D., The Catholic University of America
- Brother Leo Camille, *Lecturer in French*
Brevet, Aix, France
- Brother Leo Hyacinth, *Lecturer in Spanish*
B.S., Fordham University
- Brother Donald R. Loiselle, *Lecturer in French*
B.A., Marist College
M.A., St. John's University
- Brother Joseph Marchessault, *Instructor in Physics*
B.A., Marist College
Ph.D., The Catholic University of America
- Brother Richard McCarthy, *Associate Professor of History*
B.S. in Ed., Fordham University
M.A., The Catholic University of America
Ph.D., St. John's University
- Sister Mary Jean McGivern, O.P., *Lecturer in Biology*
B.S., M.S., Ph.D., The Catholic University of America
- Brother Andrew A. Molloy, *Instructor in Chemistry*
B.A., Marist College
Ph.D., The Catholic University of America

Brother William J. Murphy, *Assistant Professor of Sacred Doctrine*
B.S. in Ed., Fordham University
S.T.M., University of Notre Dame
M.S., St. John's University
Associateship, University of London

Brother Norbert J. Rodrigue, *Lecturer in Spanish*
B.S. in Ed., Fordham University

Robert C. Norman, *Lecturer in English*
B.A., St. Bonaventure University
M.S., Syracuse University

Edward J. O'Keefe, *Instructor in Psychology*
B.A., Iona College
M.A., Fordham University

Brother Michael I. O'Shea, *Instructor in History and Economics*
B.A., Marist College
M.A., Seton Hall University

Brother Patrick James, *Lecturer in English*
B.A., Marist College

Brother George R. Plante, *Lecturer in Economics*
B.S. in Ed., M.A., Fordham University

Sister Marie-Therese Pomerleau, O.P., *Lecturer in Spanish*
B.A., M.A., Ph.D., Fordham University, University of Havana

Theodore O. Prenting, *Lecturer in Business and Economics*
M.B.A., University of Chicago

Brother Richard Anselm, *Instructor in Philosophy*
B.A., Marist College
M.S., Fordham University

Leo P. Richard, *Lecturer in Chemistry*
B.S., Union College

Brother Robert James, *Instructor in Religion*
B.A., Marist College
M.A., University of Notre Dame

Mario P. Ruggeri, *Lecturer in Italian*
B.S.S., College of the City of New York
A.M., Columbia University
Fulbright Fellow, Florence, Italy, 1949

Brother Cornelius J. Russell, *Instructor in Business*

B.A., Marist College
M.A., Columbia University

John Schroeder, *Professor of English, Dean—Evening Division*

B.S., M.S., Ed.D., Columbia University
Professional Diploma in English, Columbia University

George J. Sommer, *Assistant Professor of English*

A.B., Manhattan College
A.M., New York University

James D. Thomas, *Instructor in Mathematics*

B.S., St. Louis University
M.S., St. Louis University

Reverend Aldo J. Tos, *Instructor in Sacred Doctrine*

B.A., St. Joseph's Seminary
M.A., Ph.D., The Catholic University of America

Brother Gerard Weiss, *Assistant Professor in Spanish*

B.A., Marist College
M.A., St. John's University
On leave during the 1961-1962 academic year.

Stelvio Zanin, *Lecturer in Chemistry*

B.S., McMaster University

GENERAL INFORMATION

HISTORICAL NOTE

Marist College is a liberal arts college founded by the Marist Brothers of the Schools, a Roman Catholic institute of religious teachers numbering over nine thousand members. The brothers teach in fifty-three countries of the world on every educational level from the elementary school to the university. They began teaching in the United States in 1892 and now have a number of schools under their care, principally on the secondary school level.

From 1929 to 1946 the institution had been known as Marist Training School, a two-year college which served to prepare members of the Marist Brothers for teaching work in secondary schools. When a complete liberal arts program was introduced, the institution was approved temporarily as Marian College by the Board of Regents of the University of the State of New York, on September 20, 1946. Marian College was affiliated with The Catholic University of America the same year. On December 15, 1950, the college received its absolute charter from the Board of Regents, together with an amendment allowing the college to accept lay students. On April 29, 1960 the absolute charter was amended to change the name from Marian College to Marist College.

During the first decade of its existence, an intensive building program was completed which saw the establishment of excellent academic and residential facilities for the student brothers. In September 1957, Marist College opened its doors to students who were not members of the Marist Institute; space limitations permitted an enrollment of twelve students. The following year the freshman class numbered twenty, and room for thirty freshmen was available by September of 1959. With the completion of Donnelly Hall, Marist College is able to accommodate between 100 and 200 freshmen each year.

The expanded facilities and enlarged faculty make it possible to offer the same liberal arts program to a limited number of evening students.

LOCATION

The college is located on the North Road, Route 9, about one mile north of the city of Poughkeepsie. It is easily accessible from

all points in Dutchess County. The Mid-Hudson and Kingston bridges provide easy access to the college from all points west of the Hudson River in the mid-Hudson area. Bus transportation is available from the campus to mid-town Poughkeepsie, while the Poughkeepsie station of the New York Central Railroad is less than five minutes' drive from the campus.

The campus consists of some one hundred acres located between Route 9 and the Hudson River. The buildings, of modern design, are clustered about the greystone library. Adequate parking facilities are situated behind Adrian Lounge. The spacious outdoor swimming pool at the northern end of the campus is converted to a skating rink during the winter months. There are sufficient athletic fields, handball and basketball courts for the intramural sports program.

The college operates campuses in Tyngsboro, Massachusetts and Esopus, New York, which provide complete educational and residential facilities for freshman year. Attendance at these branches of the college is limited to student brothers.

BUILDINGS

Our Lady Seat of Wisdom Chapel. The chapel dominates the campus (from its striking setting on the highest elevation of the campus). All the later construction has been designed so as not to interfere with the prominence of the chapel. Large enough to accommodate 250 students, the chapel has been repeatedly cited as an outstanding example of contemporary architecture.

Fontaine Hall. Located directly west of the chapel, this complex of buildings received the Miami Window Fenestration Award for 1959. It contains study, dormitory and cafeteria facilities for 200 students. The use of this building is reserved for the student brothers, with a few exceptions.

Fontaine Hall also contains the offices of the President and Chaplain and the business office. It also houses the college infirmary.

Donnelly Hall. A circular building of contemporary design, Donnelly Hall provides academic facilities for over 1,000 students. This building is the educational focus of the Marist campus. Its twenty-six classrooms, three lecture halls, six science laboratories,

Western Communications Laboratory, Cardinal Spellman Library, and cafeteria are housed in this circular building. Donnelly Hall contains the General Office together with the offices of the Deans, Director of Admissions, and Director of Psychological Services.

Greystone. This three story stone building is the oldest edifice on the campus. It housed the college library until September 1961. At present it is used for student activities. Despite (or perhaps because of) the old-fashioned appearance of the stone building 'mid the modern style construction, the ivy-covered tower of Greystone has remained the symbol of the college in the minds of students and alumni.

Gymnasium-utility. A red-brick building completed in 1948, this building houses a gym area large enough for two basketball courts. The gym also serves as an auditorium. Around the gymnasium are located various maintenance shops together with a printing shop.

Religious faculty residences. The religious faculty occupy two smaller buildings on the eastern edge of the campus.

Adrian Lounge. This is a one-story building finished in 1958. It is used by students and their guests for recreational and leisure time activities. Its furniture and setting are easily adaptable for use as a lecture hall. A prominent feature of this building is the custom-built stereophonic sound system with its extensive library of tapes.

Student Residence. The completion of this new campus addition will enable the college to accommodate an additional 120 resident students.

A number of other buildings on the campus have no educational use but serve as utility and storage buildings.

LIBRARY

The Cardinal Spellman Library. The Cardinal Spellman Library is located in Donnelly Hall. Housed in the dramatic setting of a stained-abstract-glass mural 20' by 120' designed by E. Rimai Fisher the library contains over 33,000 volumes. Spacious study and reference areas are mixed with open stacks on two large areas and two other split-level areas. The library subscribes to 145 professional and cultural periodicals.

Our Lady's Library. This library is a research center for students in the field of Mariology. The stacks and reading room are located in Fontaine Hall. A collection of 10,800 books and periodicals in twenty-four languages includes many volumes dating back to the 16th and 17th centuries. The library also features art work on the life of Our Lady. Our Lady's Library will later be transferred to Donnelly Hall.

WESTERN COMMUNICATIONS LABORATORY

The Western Printing and Lithographing Communications Laboratory, installed in February 1961, is located in Room 212 of Donnelly Hall. The laboratory consists of a master control station and twenty-seven individual student positions. Each position contains independent listening and recording facilities. Although the laboratory may be used for group work, it is designed primarily for individual study. Thus it may be employed simultaneously by students of several languages. The use of the laboratory materials operates on the library system, thereby providing maximum adjustment to individual capabilities and interests.

The Communications Laboratory has a large and expanding library of tapes. Both texts and tapes are available for basic courses in French, German, Italian, Russian, Spanish, as well as English for foreign students. Advanced material in these languages, such as readings in civilization and literature, presently available in limited quantity, is being rapidly increased. The number of languages offered will likewise be expanded to include such critical ones as Japanese and Portuguese.

Beginning September 1961, the use of the laboratory will be required of all students registered in the basic language courses. These stress the oral-audio approach in the teaching of modern foreign languages as the method best able to prepare students for contemporary world situations.

However, the laboratory facilities are available to all students, whether actually enrolled in a language class or not. Further, arrangements are readily made for men and women in the mid-Hudson area to use the laboratory for a nominal fee. Further inquiries as to the tapes available and the use of the laboratory should be addressed to: Director, Western Communications Laboratory, Marist College.

PURPOSE

The charter of the college notes that Marist College has been incorporated as an educational corporation "for the purpose of providing education on the college level." Within this framework, the college has consistently adjusted its services to the needs of a changing world. The past decade has seen its expansion to include students from the mid-Hudson area. Through extensive evening and summer degree programs, a wide range of educational opportunities has been opened to ambitious and capable students who find it impossible to pursue their studies full-time. The policy of the college has been to constantly adjust itself to the ever-changing needs of the community and the individual. The college will pursue this policy in the future.

While anxious to adapt its programs to current needs, the college remains adamant in one conviction: the mark of a true liberal Christian education is the intellectual and moral development of the *individual*. To achieve this goal, the college retains the proven core of older programs while introducing courses suited to the diversified needs of its student body. At the same time, in all its intellectual, religious, social and extracurricular activities, it makes a conscious effort to emphasize individual participation and development.

The college does not look upon itself as a "molder of man." Rather does it feel responsible to create the environment in which the individual has every opportunity to develop his own intellectual, religious and social life.

ORGANIZATION

Day Division. The college offers a full program of studies with sessions scheduled for the mornings and afternoons. Students in the day division have the choice of ten major fields: biology, business, chemistry, English, French, history, Latin, mathematics, physics or Spanish. By special arrangement with Catholic University, students may take three years of courses at Marist College to be followed by two years of intensive engineering training at Catholic University. At the end of the first year at Catholic University they will receive their B.A. from Marist College with a major in Mathematics, Physics or Chemistry. At the

end of the second year, they will receive their B.E. from Catholic University in electrical, chemical, mechanical or civil engineering.

In addition there are provided religious, intellectual, professional, cultural, and recreational opportunities consistent with college life. A matriculated student in the day division may take courses in the evening division at no extra cost.

Evening Division. The evening session offers a degree program on a part-time basis which is the exact counterpart to that offered during the day. The evening bachelor of arts program is limited to the major fields of English, history, mathematics, physics, and business.

Summer session. A summer session is conducted in both the day and evening division. Its purpose is to help enrolled students of Marist and accredited members of other colleges to accelerate or to make up deficiencies. Special courses are also given for juniors and seniors of area high schools.

Extension Divisions. These extensions of the college, located at Saint Joseph's Novitiate, Tyngsboro, Massachusetts and Marist Novitiate, Esopus, New York are restricted to aspirants to the Marist Institute. The faculties at the extension divisions are appointed by the board of trustees and are under the direct control of the officers of administration. The facilities and libraries are adequate to maintain a selected number of courses, which are principally on the freshman level.

MEMBERSHIPS AND APPROVAL

Marist College is chartered by the Board of Regents of the University of the State of New York and accredited by the State Department of Education. The college is affiliated with The Catholic University of America. The college is also accredited by the United States Department of Justice for the training of foreign students. It has the approval of the State Approval Agency for Veterans' Education. The college holds memberships in the National Catholic Educational Association, the Association of Colleges and Universities of the State of New York, and the Commission on Independent Colleges and Universities.

GRADING SYSTEM

A student receives both mid-term grades and final grades. However, only the final grades will appear on his academic record.

Grading is a measure of a student's mastery of a select body of knowledge contained in a specific course. This mastery involves the elements of memory, understanding, and expression. Memory refers to retention of certain items of information or data of experience contained in the course. Understanding means insight into the meaning of these facts or data. This insight would include the meaning of the thing in itself, its relationship with other things or data, and the ability to apply this information or data to new situations and problems. Expression is the ability to convey the assimilated knowledge to others.

In assigning a grade to a student, the instructor is like a judge in a courtroom. He examines all the evidence that is involved in the case carefully and sincerely, and makes his decision on the basis of this evidence. In a similar way, the basis of the instructor's judgment is all the evidence the student provides him concerning his growth in the mastery of the course. Formal examinations are only part of the evidence; questions asked by the student, recitations, term papers, book reports, written and oral quizzes, the student's participation in class discussions—any and every kind of evidence which sheds light upon the student's development in mastering a subject is pertinent and may legitimately be used by the instructor in making his judgment.

In view of all that has been mentioned, the following is the grading system:

C

To earn a C grade a student should be able to recall the basic elements of a course, understand the essential background and materials of a course, make some applications of the basic principles involved and express them intelligibly.

B

To earn a B grade a student should manifest all the qualities characteristic of a "C" student and in addition reveal a memory which encompasses more than the basic elements of a course; he has a more personal grasp of the principles of the course and perceives wider application of the principles. He can discuss the subject matter of the course with ease.

A

An "A" student is one who in addition to all the qualities manifested by a "B" student, SEEKS mastery of a specified field by reason of his interest; he has initiative and originality in attacking and solving problems; he shows ability in rethinking problems and making associations and in adapting himself to new and changing situations; moreover, he has an appropriate vocabulary at his command.

D

A student will earn only a D who is deficient in some degree in any of these areas.

E

A student is given an E when there is sufficient doubt as to whether he deserves to fail or barely pass. This mark entitles him to a re-examination within two weeks of its occurrence. The final mark is either failure (F) or passing (D).

Inc

An incomplete is incurred by failure to complete small portions of class assignments. An incomplete must be removed within one month from the time it was incurred; otherwise the student will receive the grade of F in this course.

F

The student has failed to show his mastery of the basic subject matter of the course.

QUALITY POINTS

The quality point system is a measure of the excellence of the student's work. For the grade of A the student receives four times the number of semester hours of credit in his course; for the grade of B he receives three times the number; for a C he receives twice as many; and for a D he receives the same number of quality points as semester hours of credit. For an F he loses the same number of quality points as semester hours of credit.

The scholastic index is computed by dividing the total number of quality points by the total number of semester hours of credit.

If a student's scholastic index falls below 2.00 for any given semester, the student is placed on probation.

THE DEAN'S LIST

The Dean's List is a posting of the names of those who have excelled academically during the previous semester. The list has two categories of honors. First honors is awarded to a student with a scholarship index of 3.50 or higher for the semester. Second honors is given the student with a scholarship index of 3.00 for the semester.

GRADUATION

In order to graduate from Marist College a student must have maintained a C or 2.00 index. At least one year or 30 credits shall be taken at Marist College in order to obtain the Bachelor of Arts Degree.

Three grades of honors are awarded to graduates based on their attainments in scholarship during the entire college course, namely:

Summa Cum Laude, or highest honors, awarded to those having a scholarship index of 3.85 and no grade below B.

Magna Cum Laude, or high honors, awarded to those having a scholarship index of 3.60 and no grade below C.

Cum Laude, or with honor, for those having a scholarship index of 3.00 or above.

PROBATION

Probation is a warning to the student and his parents that his academic record is unsatisfactory. A student who fails to attain an average of C in the work of any one semester will be placed on probation. He remains on probation until he completes one semester with an average of C or better.

Upon the advice of the Dean of Studies, a student who has been on probation for three semesters may be asked to withdraw from the college.

FAILURES

Academic failures in required subjects must be made up either at Marist or elsewhere. The student choosing to make up his aca-

demic deficiencies at another college must have the written permission of the Dean and the Registrar. If it is impossible for a student to obtain the precise course he needs, he must obtain permission to substitute an equivalent one.

DISMISSAL

Dismissal is the extreme penalty imposed upon the student by the college authority. The disciplinary authority of the college is vested in the President, and in those cases he deems proper, in the Dean.

The usual reason for dismissal is academic failure. A student is subject to dismissal from Marist if he has been on probation for three successive semesters. Dismissal for this reason precludes re-admission to Marist College Day or Evening sessions.

A student is subject to dismissal from Marist if he has failed three courses in any one academic year. A student dismissed for this reason may be readmitted to Marist as a full time student after he has taken and successfully completed with a minimum grade of C the three courses he had failed.

ATTENDANCE

Prompt and regular attendance at all classes is required of all students. A student may be ineligible for a passing grade for the semester if he is absent from more than two periods in a two credit course, from more than three periods in a three credit course, and from more than four periods in a four credit course. The Dean of the college has the final authority in all problems arising from absence.

A student is held responsible for all assignments and for the entire content of the course no matter how long or what the reason for his absence may be. A lateness of ten minutes or more is considered an absence. Two latenesses of lesser duration are equal to one absence.

TRANSCRIPTS OF RECORDS

An official transcript is one bearing the seal of the college and signed by the Registrar. Official transcripts of academic records

are not usually given to students or graduates but will be sent directly to the college, professional school, government agency or business concern named by them.

To obtain a transcript a student or graduate should apply to the office of the Registrar. A fee of \$1.00 is charged for each transcript issued. No transcripts will be issued during the periods of registration, examinations or commencement.

VETERANS

Marist College has the approval of the State Approval Agency for veterans' education. Questions concerning veteran benefits should be referred to the students' local veterans agency office. The office of the Registrar also furnishes information and counsel about veteran benefits.

FOREIGN STUDENTS

It is the responsibility of foreign students to maintain their passports, visas, and other documents in good order and up-to-date. Information concerning these matters together with the more usual forms and certificate blanks are available at the office of the Registrar.

STUDENT HOUSING

All students who do not live at home during the college year are required to reside on the campus. Since residence accommodations are limited, students who wish to reserve rooms should apply to the Business Office as soon as possible. A deposit of thirty dollars, independent of the matriculation fee, must be paid with the application. Rooms, which house four students, contain four beds, two large closets, four desks, four chairs; and a sufficient supply of bed linen. Students supply their own blankets, soap, towels, and other personal items such as desk lamps, radios, etc.

The residence hall is closed during Thanksgiving, Christmas, and Easter holidays. Students who remain on campus during these periods are obliged to pay extra fees.

A set of regulations detailing the obligations of resident students, absence from campus, of free evenings, holidays, and weekends will be supplied to each student at registration.

FACULTY ADVISERS

Seniors and Juniors will have as their adviser a faculty member from the Department of their major field.

Sophomores may choose their faculty adviser subject to the consent of the faculty member chosen and of the Dean.

TESTING AND COUNSELING CENTER

The testing and counseling center has been established to assist students with the successful completion of their studies; to help them formulate and achieve vocational goals; and to facilitate their overall personality development. Towards these ends the center provides testing programs geared to specific groups and to individual students. The usual procedure is for the test interpretation to be done on an individual basis. The services of the Center are intended for the entire student body but referrals or appointments should be made through the secretary.

THIRD YEAR ABROAD

Spending a year in a foreign country is a broadening influence in one's life. While exemplifying one's own American background, it provides the opportunity to gain an insight into another people's culture and civilization by direct personal contact. The perennial worth of such contact was recently brought to the public's attention by the President's Peace Corps Program.

Marist College encourages such living and study abroad and helps make all necessary arrangements.

Students considering this program should inform their Faculty Adviser of their interest early in the third semester.

COOPERATIVE ENGINEERING PROGRAM

By special arrangement with Catholic University, students may take three years of courses at Marist College to be followed by two years of intensive engineering training at Catholic University. At the end of the first year at Catholic University they will receive their B.A. from Marist College with a major in Mathematics, Physics or Chemistry. At the end of the second year, they will receive their B.E. from Catholic University in electrical, chemical, mechanical or civil engineering.

ENTRANCE REQUIREMENTS

Admission to Freshman Class.

The applicant must have graduated from an accredited high school and normally have completed sixteen units, of which twelve must be in academic subjects. The following is the distribution of units:

English	4 units
American History	1 unit
Social Science	2 units
Science	1 unit
Mathematics	2 units
Language	2 units
Electives	4 units

Application for admission is to be made on an official form obtainable from the office of the Director of Admissions. Application should be made well in advance of the term for which admission is sought. The procedure is as follows:

1. *Transcript of record and principal's recommendation:* The student completes the required sections of the college's application form and submits it to his high school principal or guidance director. After completing the form the principal or guidance director returns it to the Director of Admissions. The application should contain the seventh term marks in the case of an applicant who has not yet graduated from high school.

2. *Entrance examination:* Applicants to the day division must submit the results of the Scholastic Aptitude Test of the College Entrance Examination Boards, (C.E.E.B. morning session). Applicants for the evening division may submit C. E. E.B. scores or take the entrance test of Marist College.

Students transferring from other colleges need not submit C.E.E.B. records nor take the entrance examination.

3. When the committee on admissions has made a final decision on the student's application, he will be notified of the decision by mail. This notification usually comes about a month after all documents are received by the college.

Students seeking advisement on admission or on such matters as preparation or choice of curriculum may call on college days for an appointment with the Director of Admissions.

An applicant who has been accepted is required to inform the Director of Admissions within a specified time that he intends to enter the college. This notification must be in writing and must be presented together with the matriculation fee of \$25. Should the applicant fail to attend this college, the fee is non-returnable.

Health report: Each student must supply a health report from his doctor. This report should be filed with the Director of Admissions before the date of registration.

Pastor's recommendation: Each student is required to file a recommendation from his pastor with the Director of Admissions.

Acceptance of Transfer Credits.

A student who wishes to transfer to Marist College from another college must meet the same requirements as a beginning student. In addition, he must submit from each college attended a statement of honorable dismissal or of good standing and an official transcript of courses completed and in progress. Credit will, in general, be granted for appropriate courses in which the applicant has maintained at least a "C" average.

Admission of Non-Matriculated Students.

The college is prepared to admit a limited number of qualified applicants who wish to take selected courses for credit, but who do not wish to study for a degree at Marist College. Such applicants are subject to the usual admission requirements; except that a student in attendance at another college may present, in lieu of the usual credentials, a statement from his Dean that he is in good standing and has permission to pursue courses at Marist College. A form containing this statement is available from the office of the Registrar.

Students from foreign countries.

Applicants who have completed a portion or all of their education in a foreign country should submit a transcript of such training to the Director of Admissions *well in advance* of the semester in which they intend to enter the college. If the student's native language is not English, he should submit a statement that he knows English well enough to follow the courses with profit. Such certification may be made by the American Consul or through a

qualifying examination. For information about this examination, the applicant should write to the Director of Admissions.

If the student's knowledge of the language is insufficient, he will be required to take special training in English *before* being allowed to register for the regular college program.

Evening school special regulations.

The procedure for admission to the evening school is similar to that of the day session. All application forms and transcripts must be filed with the Director of Admissions one month in advance of the registration date of the semester for which the student applies. Entrance tests are given on special dates for the evening school applicants.

REGISTRATION

For the exact date of registration for both freshmen and upper classmen, see the Calendar of the academic year of this bulletin. Students registering on any day later than those designated in the academic calendar will be required to pay a late registration fee of \$2.00.

CHANGE IN REGISTRATION

Any change after the initial registration is permitted only with the written consent of the Dean. No change in registration is permitted after the second week of instruction in a semester. Changes in registration initiated by the student are subject to the change of program fee.

FRESHMAN ORIENTATION

At the beginning of each year a few days are set aside for freshman orientation. During these days new students become acquainted with the campus, the faculty, their fellow students and their environment. They also take placement tests, meet for orientation talks, discuss their program with advisers and register for the semester. The purpose of these days is to help the new students overcome the difficulties they are most likely to meet in the transition from high school to college.

TUITION AND FEES

Tuition

Per semester	
Applicable to students with fifteen or more semester hours in any semester	\$300.00
Per semester hour	
Degree students	20.00
Special students	22.00
Room and board, per semester	400.00
After September, 1962	
Room and board, per semester	425.00
Matriculation fee	
This fee is payable once, at the time the student registers for a degree program	25.00
Registration fee	
Payable each semester	5.00
Late registration fee	2.00
Activities fee, day	20.00
Activities fee, evening	5.00
Re-examination and deferred examination fee	5.00
Graduation fee	25.00
Change of program fee	
For every change of program issued at the request of the student	1.00
Transcript fee	
For every transcript after the first	1.00

PAYMENT OF FEES

Tuition and fees are due and payable in full when the student registers. Arrangements for deferred payments of fees are made directly with the business office. A service charge of \$1.00 per hundred dollars or fraction thereof of the amount due is assessed October 15, and March 15.

The business office prefers payment by check. Payment may be made at the time of registration, by mail, or at the business office. At the times when the business office is not open payment may be made to the college bookstore.

Requests for complete statement of charges and receipt of payments should be made in writing to the business office at the time of the final payment. The receipt will be mailed directly to the student.

Students whose accounts are in arrears will not be admitted to classes or to examinations, and will not be given a diploma or a transcript of record.

WITHDRAWAL FROM THE COLLEGE

Refund of Tuition and Fees

In the event a student withdraws from the college during the first two weeks of instruction, the total amount of his tuition will be refunded. After two weeks and before the middle of the semester, a rebate of one-half the tuition and fees will be made. After the middle of the semester, no rebate will be allowed.

Should a student withdraw from one or more courses so that he then becomes classified as a part-time student a *pro rata* refund of tuition and fees will be made according to the above rebate schedule, provided that such a reduction of study load occurs during the first two weeks of instruction.

To withdraw from a course or from the college the student must notify the Registrar in writing. A form is provided for this purpose. Simply notifying the classroom instructor is not sufficient.

ESTIMATED STUDENT EXPENSES

The full-time day student should expect to incur the following expenses, although the expenses vary with individual circumstances:

	DAY STUDENT	RESIDENT
Tuition and fees	\$625	\$625
Room and board		800
Transportation	100	25
Lunches	150	
Books and supplies	75	75

FINANCIAL AIDS AVAILABLE AT MARIST COLLEGE

While it is true that the costs of college education are high, the mere thought of expenses should not deter a qualified student from seeking and obtaining the education which will enrich his future life and enhance his earning power by providing him with a more advanced professional preparation. There exist a variety of ways by which the interested student may manage to finance his education. The usual sources include: family assistance, personal savings, summer earnings, scholarships and grants-in-aid, loan, and student employment. Frequently the student will have to utilize a combination of some or all of these means. An applicant to the college may obtain information and guidance on planning the finances of his education from the Director of Admissions. A student in the college should apply to the Dean.

A student who is applying for student aid (either scholarship, grants-in-aid, loan, or employment) must complete the PARENTS' CONFIDENTIAL STATEMENT of the College Boards and have the completed form sent to the college. These forms are available from the Director of Admissions.

Scholarships and grants-in-aid. While the college recognizes the value of a scholarship program, and admits students on New York State Regents Scholarships and the Regents Engineering Scholarships, the college offers no scholarships based strictly on ability. However, it does recommend that the applicant explore thoroughly every avenue of financial aid through this source. Normally the student's college adviser in his high school is able to furnish him with the pertinent information.

There are a limited number of grants-in-aid available to superior students and to applicants with superior high school records. Although an above-average record is necessary for consideration, grants are made in proportion to proven financial need and the amount of funds currently available for this purpose.

Loan funds.

1. New York Higher Education Assistance Corporation provides loans for New York State residents. Qualified students may borrow up to five hundred dollars for their freshman year, up to

seven hundred dollars for the sophomore and junior year, and up to one thousand dollars for the senior and graduate years.

2. The National Defense Loan Program provides loans from the Federal Government to students who meet two academic criteria:

- a) He must be a full time student, i.e., taking at least twelve credits a semester.
- b) He must be in good standing and capable of maintaining such standing.

Preference in allocating loan funds will be given to superior students who desire to teach in elementary or secondary schools and to students who have a superior capacity in science, mathematics, engineering, or a modern foreign language.

Student employment. The Dean proffers student employment information to the students who find it necessary to earn a portion of their expenses. There are several on campus employment opportunities. While this service does not guarantee to find a job for anyone, it does provide information and assistance to deserving students.

Employment for the first-year student should be a matter of necessity rather than choice.

ACTIVITIES AND ATHLETICS

Student Council

The Student Council, whose membership is elected from among the Student Body, is the official representative of the interests and opinions of that student body to the administration on matters directly affecting campus affairs. The Student Council controls and coordinates extracurricular and extra-campus activities of the general student body. It encourages and promotes the religious, academic, and social life of the college.

Da Vinci Society

The purpose of this society is to enable all the students of Marist College to become acquainted with various scientific research and development. This knowledge, in turn, will broaden the students' outlook and aid in the development of a well-educated man.

Fleur-de-Lis

The Fleur-de-Lis is a French club which is striving to promote a better understanding of French civilization. The club achieves its aim by presenting films, slides, and lectures on topics relevant to the French and France. The Fleur-de-Lis will also publish a French Journal to afford the students with another channel of expression.

Literary Club

The Literary Club has a twofold objective: first, the intellectual development of the members of said club in the field of literature with special emphasis on expanding creative and critical talents. The second facet of this organization's purpose is the dissemination, through two media of communication, the spoken word and the written word, of those theories, values, and works conceived by the members.

Marist College Theatre Guild

The purpose of the Guild is to educate its members in the dramatic arts, and to widen interest in and enjoyment of the theatre. To carry out this purpose, the Guild intends to stage in its own manner that which it considers to be worthwhile theatre, both morally and culturally.

The Reynard

The yearbook is written and edited by a staff composed of members of the senior class. It is a means of preserving for future years the highlights of one's college days, it serves to present to all who come in contact with it a picture of Marist. and it fosters in the staff members a greater sense of responsibility and a glimpse of some of the things that will be expected of them when they leave Marist.

Reynard's Record

The *Record* is a weekly publication presented by and for the students of Marist College. It is a medium whereby the students are able to learn of the weekly happenings on campus. In addition, the paper provides an outlet for the expression of individual opinion and talent. *Reynard's Record* is dedicated to the forthright, fair and truthful expression of such opinion.

Intramurals

The intramural program includes football, basketball, and softball. The teams are organized on a class basis, and play according to a schedule set up by an intramural committee. Playoffs are conducted between the two top teams for a college championship.

Basketball

Basketball was organized during the 1960 season by a group of students who were interested in intercollegiate athletics. The team plays a full schedule of home and away games.

Crew

The crew trains in the fall and the spring, however all races are held in the spring. The crew is a charter member of the Rusty Callow Rowing Association, and it is currently applying for membership in the Dad Vail Rowing Association. The crew rows on a national small college level.

THE LIBERAL ARTS CURRICULUM

The curriculum at Marist is designed to achieve the twofold result of adequate professional preparation for one's future occupation together with an understanding of man as an individual—his importance and his relationship with his God and his fellow man. Every graduate of Marist will be expected to show competence in areas of study which have long been recognized as important in the development of the well-rounded Christian personality. Furthermore, he will be required to demonstrate ability and genuine achievement in his field of major concentration.

The core of the curriculum consists of certain areas of study which are common to all programs. The subjects required of all students are: classical or modern language, English, economics, history, mathematics, philosophy, psychology, religion, and science.

The student should have an understanding of the fundamental structure of the American economy and the business world of which he is to become a member. In order to understand contemporary American society in which he lives, the student is asked to explore the Christian and European influence on our Western culture. He is also required to have a thorough knowledge of American history.

Modern transportation has brought man into a shrinking world. Language as a means of communication between peoples has assumed a new importance. The fundamental emphasis in the modern language courses will be in reading the language and comprehending the spoken word. Courses in the English area have a dual objective: to enable the student to write and speak competently, and to assist him in the understanding and enjoyment of the literature of England and America.

The hectic living and tensions of the times have made it essential for the person to understand his own mental operations, his emotions, his desires, his moods . . . so that he may cope with himself in the situations of everyday life. The psychology requirement attempts to attain this elementary understanding. The purpose of the philosophy curriculum is to assist the individual to achieve a clearer realization of the unity of truth, to fit the "pieces" of his knowledge of specific subjects into an harmonious whole, and to study the influence of knowledge upon action. The religion area courses will probe deeply into the fundamental concepts of the Christian religion through means of a study of the Bible and of Revelation.

PRE-PROFESSIONAL EDUCATION

Generally speaking, a liberal arts college such as Marist is prepared to furnish adequate courses for what is commonly known as pre-legal, pre-dental, pre-medical, pre-seminary, or pre-engineering education. Care must be taken, however, in the choice of courses, so that the prerequisites required by the professional school are included in the student's course of study.

The student who intends transferring to any such professional school should notify the Dean of Studies of this intention as soon as possible, so that a program may be drawn up which will be appropriate preparation for his intended professional school.

Admittance to such schools is usually based upon a student's academic record and his performance on a qualifying examination. The mere fact of a student's taking a preprofessional program is no guarantee that he will be accepted in the professional school of his choice, nor is it a guarantee that he will receive the recommendation of Marist College.

Program for the BACHELOR OF ARTS degree.

Majors in
ENGLISH FRENCH HISTORY LATIN SPANISH

Specific major courses in each year will be determined by the Department Heads.

FRESHMAN YEAR

Rel.	101	✓	Fundamentals of Catholic Belief	2	
Eng.	103-4	✓	English Composition	2	2
Eng.	105-6	✓	Introduction to Literature	3	3
Hist.	105-6	✓	Medieval History	2	2
Bio.	105-6	✓	General Biology	3	3
Eco.	303	✓	Price Theory and the Market	2	
Eco.	305	✓	National Income		2
Math.	105-6	✓	Modern Mathematics	2	2
Lang.		✓	Elementary or Intermediate	2	2
				<hr/>	
				18	16

SOPHOMORE YEAR

Rel.	203-4	✓	Sacred Scripture	3	3
Phil.	204	✓	Metaphysics	2	
Phil.	301	✓	Philosophy of Nature		2
Eng.	301-2	✓	American Literature	2	2
Psych.	207-8	✓	Ego Development	2	2
Hist.	205-6	✓	American History	2	2
Lang.		✓	Intermediate or Advanced	2	2
Major				2	2
Elective				2	2
				<hr/>	
				17	17

JUNIOR YEAR

Rel.	301-2	✓	Unity and Trinity, Incarnation	3	3
Phil.	302-3	✓	Philosophical Psychology	2	2
Hist.	305-6	✓	Modern European History	2	2
Major				4	4
Elective				4	4
				<hr/>	
				15	15

SENIOR YEAR

Rel.	401	Catholic Morality, Marriage	2		
Phil.	401	Natural Theology			2
Phil.	402-3	Ethics	2		2
Major			6		6
Electives			5		5
			15		15

SUMMARY

Religion	16	Economics	4
Philosophy	14	Language	8
English	14	Psychology	4
History	12	Major	24
Mathematics	4	Electives	22
Science	6		128

Program for the BACHELOR OF ARTS degree.

Majors in

BIOLOGY CHEMISTRY PHYSICS MATHEMATICS

Specific major courses in each year will be determined by the Department Heads.

FRESHMAN YEAR

Rel.	101	Fundamentals of Catholic Belief	2		
Eng.	103-4	English Composition	2		2
Eng.	105-6	Introduction to Literature	3		3
Hist.	105-6	Medieval History	2		2
Math.	103	College Algebra and Trigonometry	3		
Math.	104	Analytic Geometry and Calculus I			3
Eco.	303	National Income			2
Eco.	305	Price Theory and the Market	2		
Psych.	101-2	Introductory Psychology	2		2
Chem.	101-2	General Chemistry	4		4
*Bio.	105-6	General Biology	3		3
*Bio.	107	General Biology Laboratory	1		1
			20		18

*For Biology majors instead of Chem. 101-2

SOPHOMORE YEAR

Rel. 203-4	Sacred Scripture	3		3
Phil. 204	Metaphysics	2		
Phil. 301	Philosophy of Nature			2
Hist. 205-6	American History	2		2
Math. 201-2	Analytic Geometry & Calculus II, III	3		3
*Math. 203-4	Statistics	2		2
Phys. 201-2	General Physics	3		3
Phys. 203	General Physics Laboratory			3
**Chem. 101-2	General Chemistry	4		4
***Chem. 301-2	Organic Chemistry	4		4
	Electives	2		2
		16		16

*For Biology majors instead of Math. 201-2

**For Biology majors

***For Chemistry majors instead of Phys. 201-2, 203

JUNIOR YEAR

Rel. 301-2	Unity and Trinity, Incarnation	3		3
Phil. 302-3	Philosophical Psychology	2		2
	Major	6		6
	Electives	4		4
		15		15

SENIOR YEAR

Rel. 401	Catholic Morality, Marriage	2		
Phil. 401	Natural Theology			2
Phil. 402-3	Ethics	2		2
	Major	6		6
	Electives	4		4
		14		14

SUMMARY

Religion	16	Science	16
Philosophy	14	Economics	4
English	10	Psychology	4
History	8	Major	24
Mathematics	12	Electives	20
			128

BACHELOR OF ARTS

Major in BUSINESS

FRESHMAN YEAR

Rel.	101	Fundamentals of Catholic Belief	2		
Eng.	103-4	English Composition	2		2
Eng.	201-2	English Literature	3		3
Hist.	105-6	Medieval History	2		2
Bio.	105-6	General Biology	3		3
Eco.	303	Price Theory and the Market	2		
Eco.	305	National Income			2
Math.	105-6	Modern Mathematics	2		2
	or	College Algebra, Analytic Geom.			
Math.	103-4	and Calculus	3		3
Lang.		Elementary or Intermediate	2		2
			18		16

SOPHOMORE YEAR

Rel.	203-4	Sacred Scripture	3		3
Phil.	204	Metaphysics	2		
Phil.	301	Philosophy of Nature			2
Eng.	301-2	American Literature	2		2
Psych.	207-8	Ego Development	2		2
Hist.	205-6	American History	2		2
Lang.		Intermediate or Advanced	2		2
Bus.	201-2	Managerial Accounting I-II	3		3
Elective			2		2
			18		18

JUNIOR YEAR

Rel.	301-2	Unity and Trinity, Incarnation	3		3
Phil.	302-3	Philosophical Psychology	2		2
Hist.	305-6	Modern European History	2		2
Bus.	303	Public Policies toward Business	3		
Bus.	304	Financial Management			3
Math.	203-205 &	Statistics	3		
Bus.	302	Business Law			3
Elective			2		2
			15		15

SENIOR YEAR

Rel.	401	Catholic Morality, Marriage	2	
Phil.	401	Natural Theology		2
Phil.	402-3	Ethics	2	2
Eco.	304	Money and Banking	3	
Bus.	405	Marketing Management	3	
Bus.	406	Personnel Management and Industrial Relations		3
Bus.	407	Production Management		3
Elective			4	4
			14	14

SUMMARY

Religion	16	Science	6
Philosophy	14	Economics	4
English	14	Language	8
History	12	Psychology	4
Mathematics	7	Major	27
		Electives	16
			128

DESCRIPTION OF COURSES

DEPARTMENT OF BIOLOGY

Area Requirement. There is no area requirement in Biology. However, BIOLOGY 105-106 may be used to satisfy the science area requirement.

Major Field Requirement. Students intending to major in Biology spend their freshman and sophomore years acquiring a broad foundation in science. BIOLOGY 105-106 and BIOLOGY 107 are taken in the freshman year and CHEMISTRY 101-102 and PHYSICS 201-202 are taken in the sophomore year. Admittance into the Department is formally acknowledged at the end of a student's sophomore year at which time his record and progress are reviewed. During his junior and senior years a student must accumulate a minimum of 24 credits in departmental courses. If a student's interest bridges two departments, Biology credit may be granted for a non-departmental course. For example, a student with an interest in biochemistry may receive Biology credit for CHEM. 305-306. Students desiring to take advantage of this optional program must receive permission from their Adviser prior to taking the course. Majors who have maintained a Scholastic Index of 3.0 or higher in departmental courses are allowed to conduct a non-credit Senior Research Project under the guidance of a faculty member. Participants are expected to submit a formal report of their work to the Department. All majors must pass a written comprehensive examination at the completion of their senior year.

BIO. 105-106 GENERAL BIOLOGY.

Six credits

An introductory course stressing principles and concepts common to plants and animals for both majors and non-majors. Levels of biological organization are studied in the following sequence: cell, organism, population, and community.

Three hours lecture per week. Two semesters.

BIO. 107 GENERAL BIOLOGY LABORATORY.

Two credits

This is a required course for biology majors and pre-meds and is to be taken concurrently with Bio. 105-106.

BIO. 303 DEVELOPMENT OF VERTEBRATES. *Four credits*

An introduction to the principles of growth and development in vertebrates. Emphasis in laboratory is placed on chick and pig development.

Two hours lecture, four hours lab per week. One semester.

BIO. 304 CELLULAR BIOLOGY. *Four credits*

A study of cellular structure and function. Principles and concepts are reviewed that are common to both plant and animal cells. Laboratory work includes a microscopic study of tissues and organs. Students are also introduced to procedures of histological technique.

Two hours lecture, four hours lab per week. One semester.

BIO. 305 GENETICS. *Four credits*

A study of principles and theories of inheritance. The first half of the course deals with a study of the development of classical genetics. Recent advances in modern genetics are reviewed in the second half. Laboratory is concerned with a study of inheritance in the fruit fly *Drosophila melanogaster* and the wasp *Mormoniella vitripennis*.

Three hours lecture, three hours lab per week. One semester.

BIO. 306 BOTANY.

An introductory course dealing with the taxonomy, structure and life processes of plants. Laboratory work includes both field and laboratory exercises.

Two hours lecture, four hours lab per semester. One semester.

BIO. 403 PHYSIOLOGY. *Four credits*

A study of physiological principles above the cellular level. In the laboratory students work with the turtle and the frog.

Three hours lecture, three hours lab. One semester.

BIO. 404. BIOLOGY OF POPULATIONS AND COMMUNITIES. *Four credits*

A review of biological organization at the population and community level. Study will be concentrated in the following areas: population and community structure, population genetics and evolution, factors limiting the abundance and distribution of organisms.

Prerequisite: BIO. 305.

Three hours lecture, three hours lab, including field studies. One semester.

BIO. 405 COMPARATIVE CHORDATE ANATOMY. *Four credits*

A comparative study of the organ system of protochordates and vertebrates. Laboratory work includes the dissection of the shark, *Necturus*, and the cat.

Two hours lecture, four hours lab per semester. One semester.

DEPARTMENT OF BUSINESS

Major Field Requirement. A student who chooses business as a major field must complete a minimum of twenty-seven semester hours in the department. He must also pass a written or oral comprehensive examination.

Normally, a student majoring in business is expected to have taken ECON. 103-104 (or ECON. 303-305) and BUSINESS 201-202 before taking any 300 or 400 level courses in business. He should also include ECON. 304 in his major.

BUS. 201 MANAGERIAL ACCOUNTING I. *Three credits*

Development of elementary concepts and tools of analysis. Interpretation of transactions and preparation of statements reporting financial position, earnings and fund-flows.

BUS. 202 MANAGERIAL ACCOUNTING II. *Three credits*

Deals with budget preparation, internal control procedures, elements of cost accounting and the establishment of standard costs as a means of managerial control.

Prerequisite: BUS. 201.

BUS. 302 BUSINESS LAW. *Three credits*

Role of the legal approach to the problem of control in our economy. The functioning of the legal system and legal relationships encountered in business are considered. Early emphasis in the course placed on the Philosophy behind our laws and the role and manner in which law defines, facilitates and limits enterprise.

BUS. 303 PUBLIC POLICIES TOWARD BUSINESS. *Three credits*

A broad survey of government legislation and regulations affecting business. Emphasis on the public policy of maintaining competition and comparing this policy with trade regulation experience.

Prerequisite: ECON. 303.

BUS. 304 FINANCIAL MANAGEMENT. *Three credits*

A study of the financial framework within which business operates and the effective management of fund-flows through the enterprise. Topics considered are the markets for loanable funds, evaluation of various means of business financing with dynamic economic conditions, capital and cash budgets, and valuation problems. Emphasis on corporate financial policies and procedures.

Desirable Prerequisite: ECON. 304.

BUS. 405 MARKETING MANAGEMENT. *Three credits*

This course is designed to introduce all business students to the fundamental problems of marketing management. Emphasis is placed on the use of accounting, statistics, economics, social psychology and other tools in solving those problems. In addition to stress placed on the interrelation of marketing, production and finance within firms, a study of the functioning of marketing institutions and their relationship to one another is also made.

Desirable Prerequisites: ECON. 303, MATH. 300.

BUS. 406 PERSONNEL MANAGEMENT AND INDUSTRIAL RELATIONS. *Three credits*

A survey course designed to include basic ideas, data and problems in this field. Material about the labor force and labor market are dis-

cussed, as well as managerial organization and policy alternatives. Unions, issues in the employment relationship and public policy questions are also considered.

BUS. 407 PRODUCTION MANAGEMENT.

Three credits

A course intended to familiarize the student with the principal administrative problems and techniques used in the efficient manufacture of goods and services. Fundamentals of manufacturing processes are covered, in addition to a study of methods analysis and time standard application and development. The course includes a survey of production control techniques, determination of inventory levels, and the use of statistical quality control in manufacturing. Wage and salary plans are considered, and, to some extent, engineering economics is viewed for evaluating production alternatives.

Prerequisite: MATH. 300.

DEPARTMENT OF CHEMISTRY

Area Requirement. CHEM. 101-102 may be used to satisfy the liberal arts requirement in science.

Major Field Requirements. A student majoring in chemistry must successfully pass CHEM. 101-102, CHEM. 203-204, CHEM. 303-304 and CHEM. 305-306. He must also take PHYS. 201-202, and MATH. 201-202. German is the recommended language.

Each student must successfully pass a comprehensive examination. With the permission of his departmental adviser, the examination may be replaced by a research project.

CHEM. 101-102 GENERAL INORGANIC CHEMISTRY. *Eight credits*

A study of basic chemical principles, with a survey of the field of inorganic compounds, including qualitative analysis.

Two hours lecture, one problem period, one three hour laboratory period per week. Two semesters.

CHEM. 203-204 ORGANIC CHEMISTRY. *Eight credits*

A survey of the chemistry of carbon and its compounds with emphasis on class reactions, energy relations, and modern electronic and structural theory.

Prerequisite: CHEM. 101-102.

Two hours lecture, one problem period, one four hour laboratory period per week. Two semesters.

CHEM. 303-304 ANALYTICAL CHEMISTRY. *Eight credits*

The theory and application of classical and modern methods of quantitative analysis including the application of modern instrumentation.

Prerequisite: CHEM. 101-102.

Two hours lecture, four hours laboratory per week. Two semesters.

CHEM. 305-306 **PHYSICAL CHEMISTRY.** *Eight credits*
A study of the physical properties and structure of matter, the laws of chemical interaction and the theories governing these.

Prerequisite: CHEM. 101-102, MATH. 201-202, PHYS. 201-202.

Two hours lecture, one problem period, one three hour laboratory period per week. Two semesters.

CHEM. 403 **INORGANIC SYNTHESIS.** *Three credits*
A laboratory course in the synthesis of inorganic materials.

Prerequisite: Permission of the instructor.

CHEM. 404 **PHYSICAL INORGANIC CHEMISTRY.** *Three credits*
An advanced treatment of special topics in physical inorganic chemistry.

Prerequisite: Permission of the instructor.

CHEM. 405 **ADVANCED ORGANIC CHEMISTRY.** *Three credits*
A study of the structure, synthesis and general properties of terpenes, alkaloids, heterocyclic compounds.

Prerequisite: CHEM. 203-204.

CHEM. 406 **ORGANIC QUALITATIVE AND QUANTITATIVE ANALYSIS.** *Three credits*

A laboratory and lecture course dealing with the systematic identification and analysis of organic compounds.

Prerequisite: CHEM. 203-204.

ECONOMICS

Area Requirement. All students must complete two semesters of Economics.

ECON. 303 **PRICE THEORY AND THE MARKET.** *Two credits*

The business organizations of the United States; the forms they assume and the ownership; the pricing system itself; the laws of supply and demand, and the theory of production. It treats also the various forms and degrees of competition.

ECON. 304 **MONEY AND BANKING.** *Three credits*

The nature of money and credit; the modern banking system; government finance, international exchange and the international institutions lately formed to meet international monetary needs.

ECON. 305 **NATIONAL INCOME.** *Two credits*

Government finance; the National Accounts; business cycles; the determination of national income and the various theories concerning investment and savings. Also the role of the national government as an economic stabilizer.

DEPARTMENT OF EDUCATION

Students seeking teacher certification must arrange their programs with their adviser.

EDUC. 151 HISTORY OF EDUCATION. *Three credits*
A survey of educational thought, ideals and practices from ancient time to the modern realists, naturalists, psychologists and sociologists. Contributions of Christian education. Rise of modern school systems.

EDUC. 154 PHILOSOPHY OF EDUCATION. *Three credits*
A survey of significant systems of philosophy influencing educational thought. Emphasis is placed on the writings of Marcellin Champagnat.

EDUC. 251 TESTS AND MEASUREMENTS. *Three credits*
The principles governing the construction of classroom examinations. Both formal and informal types of tests are considered, with emphasis on the concepts of test validity and reliability.

EDUC. 252 METHODS OF TEACHING RELIGION. *Three credits*
Presentation and discussion of doctrine and scripture texts and their related methodology. Application of visual aids to the program in religion. Carefully criticised practice lessons in view of preparing well-trained teachers of religion.

EDUC. 351 ADOLESCENT PSYCHOLOGY. *Three credits*
A systematic study of the psychobiological and psychosocial influences operative during the transition period of adolescence.

EDUC. 362 METHODS OF TEACHING ENGLISH. *Three credits*

EDUC. 363 METHODS OF TEACHING HISTORY. *Three credits*

EDUC. 364 METHODS OF TEACHING MATHEMATICS. *Three credits*

EDUC. 365 METHODS OF TEACHING BIOLOGY. *Three credits*

EDUC. 366 METHODS OF TEACHING SPANISH. *Three credits*

EDUC. 367 METHODS OF TEACHING FRENCH. *Three credits*

EDUC. 451-452 OBSERVATION AND PRACTICE TEACHING. *Six credits*

Application of the methods and principles of education under supervision. Participation in demonstration lessons, criticisms of the lessons and actual teaching of typical classes of students.

DEPARTMENT OF ENGLISH

Area Requirement. The English requirement for students majoring in the sciences, including mathematics, is ten semester hours: ENG. 103-104 and ENG. 105-106. Students who intend to major in one of the Humanities (English, History, Languages, Business, or Education) must take fourteen semester hours of English: ENG. 103-104; 105-106 or 201-202; and 301-302.

English Major. A student wishing to offer English as a major field must present twenty-four semester hours above the area requirement. He must also pass either a written or oral comprehensive examination or the Graduate Record Examination. Term papers are required in all major English courses.

Language Requirement. The recommended languages for the English major student are French, German, Latin, or Spanish. If he intends to continue his English studies on the graduate school level, he should elect either French or German.

Comprehensive. The comprehensive examination is designed to test the student's grasp of the contents of English and American literature as well as his knowledge of trends in literary development and theory. It may be either written or oral at the option of the student. The comprehensive examination may be replaced by the Graduate Record Examination.

Teacher Certification. Students seeking certification for the teaching of English on the secondary school level should plan their major course programs to include eight credits of Century Survey courses, four credits of Major Writer courses, four credits of Literary Criticism, and four credits of Genre courses.

ENG. 103-104 ENGLISH COMPOSITION. *Four credits*
A study of the principles of rhetoric, including the various types of expository, argumentative, narrative, and descriptive writing. Readings in the essay are augmented by regular writing drills.

ENG. 105-106 INTRODUCTION TO LITERATURE. *Six credits*
A careful analysis of the principles employed in the construction of the short story, novel, drama, and lyric poem.

ENG. 107 DEVELOPMENTAL READING. *Two credits*
Training in increasing the speed and comprehension of reading different types of material.

ENG. 201-202 ENGLISH LITERATURE. *Six credits*
A survey of the principal literary developments in English literature.

ENG. 301-302 AMERICAN LITERATURE. *Four credits*
The development and background in prose and poetry in the United States, expressive of the American mind, from Colonial times to the present.

ENG. 303-304 PUBLIC SPEAKING. *Four credits*

A practical course for those interested in developing competence in oral communication. The first semester gives training in stage presence, expression, and giving note talks and extemporaneous speeches before a group. The second semester concentrates on impromptu speaking, participation in debates, forums, and panels. Voice recordings, correction of speech faults are part of the total course.

ENG. 305 RADIO AND TELEVISION. *Two credits*

Experience in announcing, in the organization and performance of radio and television plays, and in the manipulation of recording and broadcasting devices.

ENG. 306 RADIO AND TELEVISION. *Two credits*

The role of these media in the community and how each individual can benefit by communication. The operation and obligation of the radio and TV station. Lab work includes the use of tape machines, turntable, news wire, copywriting, sales and programming functions.

ENG. 307 INTRODUCTION TO LINGUISTICS. *Two credits*

A lecture series designed to demonstrate the history and development of the English language from its source in the Indo-European family of languages. The prescriptive and descriptive approaches to language study analyzed. Structure and function of the English language.

ENG. 309 LITERARY MATERIAL FOR ADOLESCENTS. *Two credits*

Analysis of the New York State High School Syllabus in literature. Methods of presentation discussed and demonstrated.

ENG. 310 ORAL INTERPRETATION OF LITERATURE. *Two credits*

Using the New York State High School Syllabus for literature the student will analyze pieces of literature and deliver sample class lectures.

GROUP A. CENTURY SURVEY COURSES

ENG. 321 MEDIEVAL LITERATURE. *Two credits*

English literature from the Old English period to the establishment of printing in England.

ENG. 322 LITERATURE OF THE RENAISSANCE. *Two credits*

A study of the principal writings and literary trends in the sixteenth century, exclusive of the dramatists.

ENG. 323 SEVENTEENTH CENTURY LITERATURE (1603-1660). *Two credits*

Metaphysical and Classical poetry. Milton. Development of prose in Bacon, Donne, Hobbes, Burton and Browne.

ENG. 324 LITERATURE OF THE RESTORATION. *Two credits*
Prose and poetry of Dryden. The drama of Etherege, Congreve, and Wycherley. The Court Wits. Literary trends leading to the Age of Reason.

ENG. 325-326 EIGHTEENTH CENTURY LITERATURE. *Four credits*
A survey of the works of Pope, the classical poets, Swift, Johnson, the essayists, the critical poets, the rise of the novel, the coming of Romanticism in Burns and Blake.

ENG. 327 THE ROMANTIC MOVEMENT. *Two credits*
Romanticism in the poetry of Wordsworth, Coleridge, Byron, Shelley, and Keats.

ENG. 328 THE LATER NINETEENTH CENTURY. *Two credits*
A study of the major figures in prose and poetry in the Victorian Age.

ENG. 329-330 CONTEMPORARY ENGLISH AND AMERICAN LITERATURE. *Four credits*
A critical analysis of the principal trends in twentieth century literature in the novel, criticism, poetry, and the drama in England and America.

ENG. 331-332 MAJOR BRITISH WRITERS. *Six credits*
A close study of the writings of the leading literary figures in English Literature from Chaucer to T. S. Eliot.

GROUP B. GENRES

ENG. 313-314 PRECEPTS OF LYRIC POETRY. *Four credits*
A chronological survey of the nature and province of lyric poetry from the medieval period to the present. A study of the emotional, imaginative and intellectual elements, together with the form, that constitute lyric poetry. General laws of versification are studied.

ENG. 315-316 THE NOVEL. *Four credits*
The development of the form of the English novel from its beginnings to the present.

ENG. 317-318 DRAMA. *Four credits*
A chronological survey of the drama in England, excluding Shakespeare, from its origin in the liturgy of the Medieval Church to the present.

GROUP C. MAJOR WRITERS

ENG. 413 CHAUCER. *Two credits*
A detailed examination of the *Troilus* and the *Tales* with emphasis on their literary characteristics and importance in the development of western thought.

ENG. 414 MILTON. *Two credits*
A detailed examination of Milton's major literary works.

ENG. 415-416 SHAKESPEARE. *Four credits*
A study of Shakespeare's art and development through an analysis of representative comedies, histories and tragedies.

GROUP D. LITERARY CRITICISM

ENG. 311-312 LITERARY CRITICISM. *Four credits*
A study of the major texts from antiquity to T. S. Eliot and the New Critics.

GROUP E. CREATIVE WRITING

ENG. 411-412 CREATIVE WRITING. *Four credits*
Analytical study and production of creative forms of prose and poetry.

DEPARTMENT OF HISTORY

Area Requirement. Liberal arts students satisfy the history area requirement by taking and passing the following courses: HIST. 105, 106, 205, 206, 305, 306.

Students majoring in science or mathematics fulfill the requirement by taking eight semester hours from the above listed courses. The selection of the courses depends to a great extent upon individual schedules.

Evening division arts students satisfy the history area requirement by taking twelve credits in the following courses: HIST. 105, 106, 205, 206, 305, 306, 403, 404.

Science and mathematics majors in the evening division need take only eight credits in the above courses.

Major Field Requirement. A student choosing history for his major field must satisfy the basic requirements of HIST. 105, 106, 205, 206, and 305, 306. Over and above this, a student must complete a minimum of twenty-four semester hours in history and political science. The department feels it necessary to direct at least the first eight of these semester hours. Therefore, the student must also take and pass the following courses: HIST. 401-402, HIST. 491, POL. SC. 302.

The History major will also complete sixteen semester hours in more specialized areas. These he will choose in conjunction with his adviser. However, not more than eight semester hours in these specialized fields may be in one area, whether Medieval, Modern, American or Contemporary. Thus while assuring the student every possibility to follow his particular interest, we hope also to broaden his background in the entire field of history.

The History major is strongly advised to achieve a reading knowledge of either French or German. Latin is advised for anyone concentrating in Medieval History.

He is also urged to arrange his electives in such a way that he includes courses devoted to an understanding of the literature of America and England.

The History Department will further require of the History major that he submit a thesis in the area of his special interest—Medieval, Modern European, American or Contemporary history. This work should demonstrate the student's knowledge of the tools of historical research, his familiarity with the important authorities in the field and the important trends in that area, as well as his ability to do original work within certain limits.

HIST. 105-106 MEDIEVAL HISTORY. *Four credits*

The history of western Europe from the beginning of the Christian era to the Commercial Revolution of the 15th century; special treatment will be given the relations of church and state.

HIST. 205-206 AMERICAN HISTORY. *Four credits*

This course emphasizes the important men and events which have helped to form America as we know it today.

HIST. 305-306 MODERN EUROPEAN HISTORY. *Four credits*

A study of the history of western Europe from the Commercial Revolution of the 15th century up to the end of the 19th century.

HIST. 401-402 CONTEMPORARY HISTORY. *Four credits*

A study of the important forces which have influenced history since the turn of the twentieth century.

HIST. 403 WORLD WAR I AND ITS AFTERMATH. *Two credits*
(1914-1936)

HIST. 404 WORLD WAR II AND ITS AFTERMATH. *Two credits*
(1936-present)

HIST. 411 ORIGIN AND SPREAD OF CHRISTIANITY. *Two credits*
History of the Church and western Europe, to a great extent, under

the Roman emperors; spread of Christianity throughout Europe, and its expansion to other continents.
To be offered Fall 1962.

HIST. 412 RISE AND DEVELOPMENT OF THE HOLY
 ROMAN EMPIRE. *Two credits*
A study of the politics of the Roman Empire and of the attempts of various dynasties to bring about unity within it.
To be offered Spring 1963.

HIST. 413 MEDIEVAL MONASTICISM AND ITS INFLUENCE. *Two credits*
Study of the rise of monasticism and of its impact upon society and government in the Middle Ages.
To be offered Fall 1961.

✓ HIST. 424 RENAISSANCE AND REFORMATION. *Two credits*
Investigation of the origin and spread of the Renaissance and reformation movements throughout Europe, up to 1648.
To be offered Spring 1962.

HIST. 431 FRENCH REVOLUTION AND NAPOLEON. *Two credits*
Traces the French Revolution from its causes to its culmination in the dictatorship of Napoleon.
To be offered Fall 1962.

HIST. 432 THE EUROPEAN PENTARCHY AND THE BALANCE
 OF POWER. *Two credits*
A study of the age of Metternich, of the rise of liberalism, of the failure of liberalism in 1848, and of the international balance of power governing European politics up to Bismark.

✓ HIST. 451 AMERICAN FOREIGN RELATIONS AFTER 1865. *Two credits*
A study of the rise of imperialism, of America's participation in the First World War, of isolation in the 1920's and finally of America's entrance into the Second World War and the difficulties of negotiating with Russia.
To be offered Fall 1961.

HIST. 454 CONTEMPORARY AMERICAN POLITICAL AND
 SOCIAL HISTORY. *Two credits*
A study of the prosperity and the depression following World War I, of the New Deal and the repercussions of the New Deal on subsequent American politics.
To be offered Spring 1962.

HIST. 455 SOCIAL AND ECONOMIC HISTORY OF THE
 UNITED STATES. *Three credits*
A study of the social and economic forces influencing American history from 1700 to the present time.

MATH. 103 COLLEGE ALGEBRA AND TRIGONOMETRY. *Three credits*
Review of intermediate algebra; theory of equations; determinants, logarithms, inequalities and partial fractions; polynomial functions; binomial theorem; complex numbers; trigonometric functions; equations and identities.

MATH. 104 ANALYTIC GEOMETRY AND CALCULUS I. *Three credits*
Differentiation and integration of algebraic functions with applications: velocity, rates, maxima and minima, area, volumes, centroids. Elements of analytic geometry.

Prerequisite: MATH 103, or four years of high school mathematics, including advanced algebra and trigonometry.

MATH. 201 ANALYTIC GEOMETRY AND CALCULUS II. *Three credits*
Differentiation and integration of transcendental functions. Analytic geometry; conic sections. Applications.

MATH. 202 ANALYTIC GEOMETRY AND CALCULUS III. *Three credits*
Infinite series, power series. Partial differentiation and multiple integrals. Hyperbolic functions, complex numbers and vectors. Applications.

MATH. 203-204 ELEMENTARY STATISTICS. *Four credits*
Description of sample data, simple probability, the binomial and normal curves, estimation and testing of hypotheses, correlation and regression, the Chi-squared distribution.

MATH. 205 INTRODUCTORY STATISTICS. *Three credits*
An intensive treatment of the same topics as MATH. 203-204.
Prerequisite: MATH. 103 or its equivalent.

MATH. 301 DIFFERENTIAL EQUATIONS. *Three credits*
Ordinary differential equations: first order differential equations; linear equations; systems of linear equations; electrical circuits: Existence theorems. Series solutions of the classical second order differential equations. Numerical methods. Introduction to Fourier series and Laplace transform.

MATH. 302 ADVANCED CALCULUS. *Three credits*
Law of the mean; mean value theorems. Vector algebra. Partial differentiation with applications. Implicit function theorem. Multiple Integration. Line and Surface Integrals. Theorems of Gauss, Green and Stokes. Vector Integral Calculus. Series. Improper Integrals. Fourier series.

MATH. 303-304 PROBABILITY AND STATISTICS. *Six credits*
Probability. Distribution functions. Moments and moment generating functions. Regression and correlation. Sampling. Estimation. Testing of hypotheses. Design of experiments.

MATH. 305-306 MATHEMATICAL ANALYSIS. *Six credits*
The Real and Complex Number Systems. Basic point set theory. Limits and continuity. Differentiation. Partial differentiation. Theory

of Riemann-Stieltjes Integration. Multiple Integrals and line integrals. Vector Analysis. Differential Geometry. Infinite series. Improper Integrals. The Gamma and Beta Functions. Fourier series and Fourier integrals. Laplace transform.

MATH. 351 THE TEACHING OF MATHEMATICS. *Three credits*

A discussion of current trends in secondary school mathematics courses. Methods of teaching algebra and geometry. Programs for advanced students. Programs for the slow learner.

MATH. 401 FUNDAMENTAL CONCEPTS OF ALGEBRA. *Three credits*

Principles of symbolic logic. Concepts of set, field, group, ring and applications to geometry and analysis. The real number system. Linear algebra: vector spaces and matrix theory; linear transformations.

MATH. 402 COMPLEX VARIABLES. *Three credits*

Continuity; differentiability; Cauchy-Riemann equations; analytic functions. Complex integration and Cauchy's theorem. Taylor's theorem. Taylor and Laurent series. Residue theory, conformal mapping, harmonic functions.

MATH. 413 NUMERICAL ANALYSIS. *Three credits*

An introduction to the fundamental processes of numerical analysis. Ordinary finite differences; central difference and divided differences; numerical solution of equations; numerical approximations to derivatives and integrals; numerical solutions to ordinary differential equations; matrices and simultaneous linear equations.

Prerequisite, or corequisite: Differential equations.

MATH. 421 FUNDAMENTAL CONCEPTS OF GEOMETRY. *Three credits*

Foundations of geometry. Axiomatic geometry. Euclidian geometry. Projective geometry. Brief description of parabolic, hyperbolic and elliptical non-Euclidian geometries.

MATH. 451 SEMINAR. *Two credits*

This is required of all mathematics majors. It consists of weekly meetings of the department to discuss mutual problems relating to projects undertaken by the students.

DEPARTMENT OF MODERN LANGUAGES

Area Requirements. The basic requirement for the arts major is eight credits in a foreign language.

Students with no previous background in the language will begin with the Elementary Course.

Students who successfully completed at least two years of the language in high school are expected to begin with the Intermediate Course.

Students claiming and proving above-average ability in the lan-

guage, and not choosing to learn a new language, may select advanced courses to fulfill the language requirement.

Major Field Requirements. A student may select a major field of study in either French or Spanish. The departmental requirements are as follows:

Course work: The student must complete a minimum of twenty-four semester hours in his major language, beyond the basic requirement of eight credits. Furthermore, his elective courses in third and fourth years will normally be allied to his major field. A four-semester study of a second language is highly recommended.

Theme: This theme will be written in conjunction with the seventh semester Seminar. It is intended to demonstrate the student's ability to do basic research and personal critical analysis.

Comprehensive: Before graduation, language majors will undergo a written comprehensive examination to test their overall grasp of the chosen literature. They will also take an oral examination to demonstrate their fluency in speaking the language. The Graduate Record Examination may replace the written comprehensive test.

Instruction. Elementary and Intermediate courses require weekly laboratory work. (For information on the Western Communications Laboratory, see p. 14.)

All courses beyond the Intermediate level are conducted entirely in the foreign language.

Course prerequisites may be waived upon consultation with the chairman of the department.

FRENCH

FREN. 105-106 ELEMENTARY FRENCH. *Four credits*

The elements of basic French; pronunciation, essentials of grammar, vocabulary building, original sentence construction. Reading of graded selections of French prose and verse.

FREN. 107-108 INTERMEDIATE FRENCH. *Four credits*

The elements of basic French pursued more intensely and thoroughly. During the second semester, special emphasis is placed on reading.

FREN. 203-204 CONVERSATIONAL FRENCH. *Four credits*

Discussion of topics in various fields: home, school, and social life; arts, sciences, government, etc. Drill on phonetics, intonation, rhythm, diction.

Prerequisite: Eight semester hours beyond the Elementary Course.

To be offered: 1962-1963.

FREN. 301-302 FRENCH LITERATURE: ORIGINS TO 1800. *Six credits*

A study of the evolution of French literature from its beginnings up to 1800, with a brief introductory exposition of the origins of the French language. First semester: the Middle Ages and the Renaissance. Second semester: the Seventeenth and Eighteenth centuries.

Prerequisite: Eight semester hours beyond the Elementary Course.

To be offered: 1961-1962.

FREN. 303-304 FRENCH CIVILIZATION. *Four credits*

The most characteristic movements in French history, government, art and science; considerations on French family, religious, educational and social life; geography of France, regional customs. French influence on the modern world.

Offered every year.

FREN. 311 THE ROMANTIC MOVEMENT: 1800-1850. *Two credits*

The characteristics of French Romanticism, exemplified by Lamartine, Hugo, Vigny, Musset; Stendhal, Balzac; Sainte-Beuve. Pre-romanticism as seen especially in Chateaubriand.

Prerequisite: Eight semester hours beyond the Elementary Course.

To be offered: Fall 1961.

FREN. 312 FROM REALISM TO SYMBOLISM: 1850-1895. *Two credits*

The Parnassian Movement. Realism and naturalism in Flaubert, Zola, Maupassant, Becque. Literary criticism of Taine. Poetry of Baudelaire, Rimbaud, Verlaine, Mallarmé.

Prerequisite: Eight semester hours beyond the Elementary Course.

To be offered: Spring 1962.

FREN. 403 FRENCH POETRY. *Two credits*

A study of the content and form of French lyric poetry. Readings in texts from representative authors of various periods.

Prerequisite: Eight semester hours beyond the Elementary Course.

To be offered: Fall 1962.

FREN. 404 FRENCH DRAMA. *Two credits*

A survey of French dramatic production from its origins to the beginnings of the Twentieth Century, exclusive of Corneille, Racine, and Moliere.

Prerequisite: Eight semester hours beyond the Elementary Course.

To be offered: Spring 1963.

FREN. 405 THE FRENCH NOVEL. *Two credits*

A survey of French novel writing from its origins to the beginnings of the Twentieth Century.

Prerequisite: Eight semester hours beyond the Elementary Course.

To be offered: Fall 1962.

- FREN. 406 CATHOLIC LITERATURE. *Two credits*
 An appreciation of Catholic letters since 1884, particularly the works of Huysmans, Bloy, Péguy, Claudel, Bernanos, and F. Mauriac.
Prerequisite: Eight semester hours beyond the Elementary Course.
To be offered: Spring 1963.
- FREN. 407-408 CONTEMPORARY LITERATURE. *Four credits*
 A study of French literature from 1895 to the present.
Prerequisite: Eight semester hours beyond the Elementary Course.
To be offered: 1962-1963.
- FREN. 411-412 FRENCH COMPOSITION. *Six credits*
 Stylistic analysis of various authors. Translation of literary texts, mainly from English to French. Free writing, but with emphasis on the method of French *dissertation*.
Prerequisite: Twelve semester hours beyond the Elementary Course.
To be offered: 1962-1963.
- FREN. 421 SEMINAR. *Two credits*
 Intensive study of one movement, author, or literary characteristic. Seventh semester course.
Offered on an individual basis.

GERMAN

- GERM. 105-106 ELEMENTARY GERMAN. *Four credits*
 Designed to enable students to acquire a reading knowledge of German as rapidly as possible. Grammar, vocabulary building, conversation are based upon the reading of simple modern stories.
- GERM. 107-108 INTERMEDIATE GERMAN. *Four credits*
 Brief review of major structural elements. Study and oral practice of common vocabulary and idiomatic usages to facilitate the writing and speaking of basic German. Analytic reading of moderately difficult to difficult prose selected from the masters and designed to introduce the student to the main chapters of German literature.

ITALIAN

- ITAL. 101-102 ELEMENTARY ITALIAN. *Four credits*
 The course stresses the fundamentals of grammar; the acquisition of a broad, basic vocabulary, including common idiomatic expression; conversation, and elementary composition and reading.
- ITAL. 103-104 INTERMEDIATE ITALIAN. *Four credits*
 Selected readings of Italian authors and conversation ability are stressed.

RUSSIAN

- RUSS. 105-106 ELEMENTARY RUSSIAN. *Four credits*
 Russian alphabet and script, elementary grammar, pronunciation, reading and conversation. Emphasis will be placed on rapid acquisition of reading skill.

RUSS. 107-108 INTERMEDIATE RUSSIAN. *Four credits*

A review of the fundamentals of grammar followed by a more advanced study of grammatical structure and idiom; reading of moderately difficult texts; composition; oral practice.

SPANISH

SPAN. 105-106 ELEMENTARY SPANISH. *Four credits*

The course will comprise a thorough study of the fundamentals of grammar; the acquisition of a broad, basic vocabulary, including the most common idiomatic expressions; conversation; elementary composition and reading.

SPAN. 107-108 INTERMEDIATE SPANISH. *Four credits*

Intermediate grammar and composition. Conversational Spanish is stressed. Selected reading from works of outstanding Spanish authors.

SPAN. 201-202 ADVANCED SPANISH. *Six credits*

Extensive use of idiomatic Spanish in conversation and composition is intended to broaden the student's linguistic and cultural knowledge of the language. Readings from representative Spanish American authors.

Prerequisite: SPAN. 103-104.

SPAN. 203-204 CONVERSATIONAL SPANISH. *Four credits*

Discussion of topics in various fields: home, school, and social life; arts, sciences, government, etc. Drill on phonetics, intonation, rhythm, diction.

SPAN. 301-302 SURVEY OF SPANISH LITERATURE. *Six credits*

A study of the evolution of Spanish literature from its beginning to the present time. Extensive literary readings required. This course is conducted in Spanish.

Prerequisite: SPAN. 201-202.

SPAN. 303-304 HISPANIC CIVILIZATION. *Six credits*

The cultural development of the Hispanic world through the study of its history, geography, literature and fine arts. The first semester treats of Spain and the second of Latin America.

Prerequisite: SPAN. 201-202.

SPAN. 401 SPANISH LITERATURE OF THE GOLDEN AGE. *Three credits*

A study of the important literary currents of this era. Special emphasis is given to the outstanding dramatists of the period.

Prerequisite: SPAN. 301-302.

SPAN. 402 CERVANTES. *Three credits*

The life and work of Cervantes with a detailed treatment of the Quixote.

Prerequisite: SPAN. 401.

A survey of the major trends in the literature of Spanish America. Extensive literary readings required.

Prerequisite: SPAN. 201-202.

DEPARTMENT OF PHILOSOPHY

Area Requirements. Liberal arts majors and science majors are required to take a minimum of 14 credits in philosophy. Included in any philosophy program must be the following courses: METAPHYSICS and ETHICS.

PHIL. 103-104 ORIENTATION TO PHILOSOPHY AND
EPISTEMOLOGICAL FOUNDATIONS. *Four credits*

A brief historical survey of the development of philosophy will initiate the student into the problems of philosophy, its scope and its origin, and in general the meaning and function of philosophical thought. A study of the nature of the concept, the fundamental operations of the human mind, judgments, the nature of logical thinking, variant syllogistic forms, deduction and induction as instruments in the attainment of truth will acquaint the student with philosophical terminology. Provision is made for a philosophical penetration into the source, conditions, nature, and validity of human knowledge. Several approaches to the problem of knowledge will be investigated.

PHIL. 204 METAPHYSICS. *Two credits*

This course involves the study of being as being. Such a study deals with the problem of the one and the many, the principle of limitation, analogy, act and potency, existence and essence, the transcendental attributes of being, causality, and the predicaments.

PHIL. 301 PHILOSOPHY OF NATURE. *Two credits*

This course is concerned with the nature of the universe and the main theories relative to this topic. Attention will be focused on the distinction between scientific and the philosophical study of nature. The intrinsic conditions, properties, and relations of spatio-temporal being are discussed.

PHIL. 302-3 PHILOSOPHICAL PSYCHOLOGY. *Four credits*

Philosophical psychology is an investigation into the meaning of life and the various grades of life. The study will also consist of an inquiry into sense knowledge and sense appetite. Great stress will be centered on the philosophy of sense knowledge, the nature of the human intellect, the nature of intellectual knowledge, the human will, human freedom, and the spirituality and immortality of the human soul.

God & Philosophy
PHIL. 401 ~~NATURAL THEOLOGY.~~ *Natural Theology* Two credits

Natural theology is the study of Uncreated Being with regard to His existence, nature, attributes, operations, creation, divine concurrence, and Providence. The classical proofs by St. Thomas for the existence of God will be carefully considered. Some of the invalid arguments for God's existence by St. Anselm, Descartes, and Leibniz will be freely discussed.

PHIL. 402-3 ~~ETHICS.~~ *Moral Philosophy* Four credits

Ethics is the science of man's human destiny as discovered by reason. It investigates man's free acts, the intrinsic nature of morality, the source of moral obligation, the eternal and natural law, sanction and merit, conscience as the principle of action, virtue and vice. These general moral principles are applied to concrete situations in life experienced by man as an individual and as a member of society.

PHIL. 411 HISTORY OF ANCIENT PHILOSOPHY. Two credits

This course traces the development of philosophy from the Pre-Socratics to St. Augustine. Special consideration will be given to Plato, Aristotle, and Plotinus.

PHIL. 415 PROBLEMS IN MODERN PHILOSOPHY. Two credits

The contributions of the seventeenth and eighteenth centuries to the development of modern philosophy will be investigated. Several of the important texts of some outstanding philosophers as Descartes, Spinoza, and Leibniz will be critically reviewed.

DEPARTMENT OF PHYSICS

Area Requirement. There is no area requirement in Physics. However, PHYSICS 201-202 may be used to satisfy the science area requirement.

Major Field Requirement. A student who chooses physics as a major field must complete a minimum of thirty credits in the department. This will normally include PHYS. 201-202, 203, 311, 312, 321-322, 323, 411-412 and 451.

A student must also take CHEM. 101-102 and MATH. 103-104, 201-202 and MATH. 301.

No comprehensive examination is required.

A physics major is expected to undertake and complete a theoretical or experimental project. This should be selected in the junior year under the guidance of a faculty member and must be completed before graduation.

PHYS. 201-202 GENERAL PHYSICS. *Six credits*

An introduction to the basic fields of physics covering an introduction to the basic concepts of mechanics, heat, sound, electricity and magnetism, optics and atomic physics. The mathematical approach is stressed.

Prerequisite: MATH. 103-104.

Three hours lecture per week. Two semesters.

PHYS. 203 GENERAL PHYSICS LABORATORY. *Three credits*

This course should be taken concurrently with PHYS. 201-202 by students not majoring in Physics. Students majoring in Physics may postpone this course until later.

Three hours lab per week. Two semesters.

PHYS. 311 MECHANICS. *Three credits*

A study of Newtonian mechanics and problems involving motion of a particle using vector algebra. Rigid body problems, gravitation and gravitational fields and selected problems from the mechanics of continuous media.

Three hours lecture per week. One semester.

PHYS. 312 PHYSICAL OPTICS. *Three credits*

A brief review of geometrical optics and an introduction to the phenomena of physical optics. The major topics will be: mathematics of light waves, interference, Fraunhofer diffraction, velocity of light, optical spectra, dispersion, polarization and electromagnetic character of light.

Three hours lecture per week. One semester.

PHYS. 321-322 ELECTRICITY AND MAGNETISM. *Six credits*

A study of electrostatics, dielectric theory, capacitance, electric current, AC-DC circuits, magnetic properties of matter, Maxwell's equations and electromagnetic waves.

Three hours lecture per week. Two semesters.

PHYS. 323 ELECTRICITY AND MAGNETISM LABORATORY. *Two credits*

Three hours lab per week. Two semesters.

PHYS. 411-412 ATOMIC PHYSICS. *Six credits*

Introduction to electronic and nuclear structure of the atom; a discussion of the basic experiments in atomic physics; atomic spectra; introduction to quantum mechanics and the atomic physics of solid state.

Prerequisites: PHYS. 312, 321-322.

Three hours lecture per week. Two semesters.

PHYS. 422 MODERN PHYSICS. *Two credits*

An introduction to the history and important experiments in modern physics: relativity theory, the Lorentz transformations and Einstein's law of gravitation and the photoelectric effect.

Prerequisite: PHYS. 411.

Corequisite: PHYS. 412.

Two hours lecture per week. One semester.

PHYS. 421 SOLID STATE PHYSICS. *Two credits*

Description of crystal structure, diffraction of X-rays by crystals, elastic constants of crystals, free electron model of metals, band theory of solids, semi-conductor crystals, superconductivity, excitons, photo-conductivity and luminescence.

Two hours lecture per week. One semester.

PHYS. 431 THERMODYNAMICS. *Two credits*

An introduction to the laws of thermodynamics, heat transfer, entropy, with applications of thermodynamics to special systems.

Two hours lecture per week. One semester.

PHYS. 432 ELECTRONICS. *Two credits*

An introductory course covering the fundamentals of electron tube operation and circuit design.

Two hours lecture per week. One semester.

PHYS. 442 X-RAY DIFFRACTION. *Two credits*

An introduction to the methods of X-ray diffraction, the use of powder and laue cameras with applications to crystallography and chemistry.

Prerequisite: PHYS. 421.

One hour lecture, two hours lab per week. One semester.

PHYS. 443 OPTICS LABORATORY. *Two credits*

A course designed to give students who have taken or who are taking PHYS. 312 an opportunity to obtain first-hand experience with optical experimental equipment.

Four hours lab per week. One semester.

PHYS. 451 SEMINAR. *No credit*

This is required of all physics majors. It consists of periodic meetings of the department to discuss mutual problems relating to projects undertaken by the students.

DEPARTMENT OF PSYCHOLOGY

Area Requirement. A student majoring in mathematics or science fulfills the psychology requirement by the successful completion of PSYCH. 101 and 102. A student in the arts division must take PSYCH. 207 and 208. These courses serve as prerequisites for entrance into any of the other psychology courses.

At present the department does not offer a major sequence in psychology. The courses listed below may serve to complete a minor sequence or as electives for qualified students

PSYCH. 101-102 INTRODUCTORY PSYCHOLOGY. *Four credits*

An introduction to the field of modern psychology. The course is designed to provide a basic understanding of human behavior.

PSYCH. 207-208 EGO DEVELOPMENT. *Four credits*
A study of the evolution and organization of personality structure as proposed by Ausubel. Personality development is considered from infancy, through childhood and up to and including adolescence.

PSYCH. 311 PSYCHOLOGY OF ADJUSTMENT *Three credits*
An introduction to the nature of human adjustment and the principles that are necessary to achieve and maintain an adequate level of adjustment in daily living.

PSYCH. 315 SOCIAL PSYCHOLOGY. *Two credits*
A study of the individual functioning in social situations. Emphasis is placed upon culture and personality, social movements, social roles, public opinion, propaganda, mass behavior and other factors that stimulate and control social behavior.

PSYCH. 401 PSYCHOLOGY OF ADOLESCENCE. *Three credits*
A systematic study of the psychobiological and psychosocial influences operative during the transitional period of adolescence.

PSYCH. 402 EDUCATIONAL PSYCHOLOGY. *Three credits*
A survey of the applications of psychology to classroom instruction and management with special emphasis at the secondary school level.

PSYCH. 411-412 GENERAL EXPERIMENTAL PSYCHOLOGY. *Four credits*
A comprehensive treatment of the subject matter and methods of experimental psychology. Specific attention is focused upon the areas of sensation and perception, reaction time, association, attention, emotion, memory, and learning.

SACRED DOCTRINE

The sequence in Sacred Doctrine has been arranged to give the student an acquaintance with the fullness of God's revelation. It seeks to aid in the development of the true Christian "who thinks, judges and acts constantly and consistently in accordance with right reason illumined by the supernatural light of the example and teaching of Christ" (Pius XI). The approach is a systematic, Biblical-theological one in which the student is guided progressively into the Mystery of Christ and is assisted in achieving a grasp of his faith which will be commensurate to his distinct vocation as a member of the Mystical Body of Christ.

REL. 101 FUNDAMENTALS OF CATHOLIC BELIEF, WORSHIP
AND PRACTICE. *Two credits*
Existence of God. The Bible. God's plan for the salvation of mankind in His Son Jesus Christ. The Church, the Body of Christ. Worship and growth in the Divine Life. The Commandments of God.

REL. 401 CATHOLIC MORALITY. MARRIAGE. *Two credits*

The virtues. Exercise of Faith. Christian Hope. Special role of Charity. Prudence in authority and obedience. Christian temperance. Justice: social and distributive. Fortitude and dangers to spiritual and physical life. Marriage morals and family life. Related Papal Encyclicals will be used.

REL. 403 SPIRITUAL FOUNDATIONS OF MODERN AMERICAN LIFE. *Two credits*

Moral and spiritual values underlying American institutions: cultural, political, economic. Selected questions on contemporary religious and social problems. The family as the basis of the social order. Preparation for marriage.

For non-Catholic students.

REL. 402 INTRODUCTION TO MARILOGY. *Two credits*

Principles and sources. Mary in Scripture and Tradition. Doctrines: Mother of God, Immaculate Conception, Perpetual Virginity, Assumption. Mary and the Mystical Body of Christ. Marian cult. Liturgy and devotions.

REL. 404 ROLE OF THE LAITY IN THE CHURCH. *Two credits*

Nature of Perfection of the Christian Life. The laity's field of action. The laity and the power of Orders, the *magisterium*. Lay spirituality. Role in Liturgical Worship. Concept of Catholic Action and modern society. Christian family movements.

REL. 406 WORSHIP: SACRED LITURGY AND PERSONAL PIETY. *Two credits*

Necessity of worship. Detailed study of encyclical *Mediator Dei*. Theology of the Mass and Sacraments. Sacred signs. The Liturgical Year. Sacramentals. Participation in the Liturgy as a privilege and duty of the members of the Common Priesthood of Christ. Meditation and Spiritual Exercises.

SCIENCE EDUCATION

SCI. 101-102 GEOLOGY. *Six credits*

A study of the earth, involving the processes which act within it and upon its surface to produce mineral deposits, rock structures, and features of the landscape. Field trips and laboratory work.

SCI. 103-104 INTRODUCTORY EARTH SCIENCE. *Six credits*

An integrated study of the phases of physiography, mineralogy, geology, geography, astronomy, and meteorology leading to a comprehension of the earth as the abode of man. Lectures, demonstrations, and field trips.

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