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Trinity College

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Trinity College
HARTFORD CONNECTICUT

Trinity College Bulletin

Graduate Studies

1968-1969

Calendar

CHRISTMAS TERM - 1968

Sept. 11, Wednesday	Graduate Advisers' Pre-registration Sessions, 7:00 to 9:30 P.M., Washington Room, Mather Hall
Sept. 12, Thursday	Christmas Term begins
Nov. 28, Thursday	Thanksgiving holiday
Dec. 2, Monday	Classes resume
Dec. 20, Friday*	Christmas Term ends

TRINITY TERM - 1969

Jan. 15, Wednesday	Trinity Term begins
February 14, Friday	Final day for submittal of application to receive Master's degree
March 14, Friday	Spring vacation begins
March 15, Saturday	Final day for submittal of requests for comprehensive examination
April 7, Monday	Classes resume
May 1, Thursday	Final day for submittal of theses
May 16, Friday*	Trinity Term ends
June 1, Sunday	One Hundred and Forty-third Commencement

SUMMER TERM - 1969

June 23, Monday	Summer Term begins
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*Final examinations in courses requiring them will be administered at the final class meeting of each term.

Applications for Master's degree candidacy are acted upon twice annually: during the first two weeks of November and again during the first two weeks of April.

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VOLUME LXV, NUMBER 2

Catalogue No. 232

August 1968

Graduate Studies 1968-1969

Faculty and Administration

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Dean of the Faculty
Associate Dean of the College
Assistant Dean of the College and Registrar
Secretary
Secretary

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Professor of Modern Languages
Professor of Economics
Lecturer in Mathematics
Assistant Professor of English
Instructor in Mathematics
Instructor in Philosophy
Associate Professor of English
Lecturer in Government
Assistant Professor of Government
Assistant Professor of History
Jarvis Professor of Physics
Northam Professor of History
Professor of History
Associate Professor of Philosophy
Assistant Professor of Education
Lecturer in Spanish
Professor of History
Associate Professor of Economics
Instructor in Economics
Librarian
Assistant Professor of English
Assistant Professor of Philosophy
Assistant Professor of Modern Languages
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Assistant Professor of English
Professor of Education
Assistant Professor of Mathematics
Assistant Professor of Government
James J. Goodwin Professor of English
Brownell Professor of Philosophy
Associate Professor of Classical Languages
Professor of Education
Instructor in Mathematics
Professor of Government
Assistant Professor of History
Associate Professor of Mathematics
Assistant Professor of English
Associate Professor of English
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Lecturer in Mathematics
Lecturer in Education
Scovill Professor of Chemistry
Associate Professor of English
Instructor in History
Professor of Government
Lecturer in Mathematics
Professor of Economics
Associate Professor of Economics
Assistant Professor of Economics
Associate Professor of Modern Languages
Associate Professor of History
Professor of Mathematics
Professor of English
Assistant Professor of Physics

Graduate Studies at Trinity College

THE Trinity College program of graduate studies provides for the further scholarly development of talented men and women who wish to engage in a program of part-time graduate study.

Courses in the program lead to the degrees of Master of Arts and Master of Science. Men and women who hold the Bachelor's degree may enroll in graduate courses for which they are qualified even though they do not matriculate for the Master's degree.

As a result of its experience since 1927 with part-time graduate study, Trinity has concluded that the following conditions enable graduate students to progress toward a Master's degree which will represent superior accomplishment: *first*, a limited enrollment of students who are capable, mature, highly motivated; *second*, a Faculty of scholar-teachers; *third*, courses which meet for the longest possible time consistent with the efficient use of the student's necessarily limited time; *fourth*, small classes which meet at the college; *fifth*, excellent library facilities; *sixth*, encouragement of independent research; *seventh*, careful counseling of students to undertake in any semester no more courses than they can complete to the best of their ability.

STUDENTS

Although undergraduate degrees at Trinity are limited to men, graduate study is open to both men and women.

Men and women who hold the Bachelor's degree may enroll in graduate courses for which they are qualified even though they do not matriculate for the Master's degree. Such persons should consult with the Office of Graduate Studies or the appropriate departmental graduate adviser (see center section of this catalogue) before registering. They must provide a transcript of their undergraduate record prior to the end of the fourth week of classes in their first term of attendance.

No student who is employed on a full-time basis, whether or not a candidate for the Master's degree, may in his first term of study at Trinity register for more than one half-year course. In subsequent semesters a limit of two half-year courses is imposed. This rule was established to protect students who might undertake more work than they can accomplish successfully. Students will find that each course requires a large amount of reading at home or in the library, and almost all courses will include the preparation of a term paper or report. The Office of Graduate Studies is empowered to adjust these restrictions for students employed less than full-time.

Undergraduates matriculated for the Bachelor's degree at Trinity who are entering their junior or senior year and whose records have been outstanding will be permitted to enroll in certain graduate-level courses, indicated by an asterisk (*). To enroll in these courses an eligible student must have the prior approval of his adviser, of the instructor of the course, and of the Office of Graduate Studies. Undergraduates who are admitted to these courses are expected to complete the same requirements that apply for graduate students.

CANDIDACY FOR THE MASTER'S DEGREE

Trinity grants the Master's degree in chemistry, economics, education, English, French, government, history, Latin literature and classical civilization, mathematics, philosophy, physics, and Spanish. Graduate courses in several of these areas are offered in the Trinity Summer Term as well as the regular college year.

Students who expect to work toward a Master's degree and students who are seriously considering study toward this degree are urged to apply as early as possible for matriculation as candidates for the degree. There are two advantages to application prior to, or soon after beginning, graduate study: 1. if the application is not approved the student will be spared the cost of tuition for courses which will not be credited toward a degree; 2. if the application is approved the student can be properly advised on a program of study. All candidates will be expected to complete a minimum of six half-year courses after admission to candidacy.

Applicants are expected to hold a Bachelor's degree from an accredited college. Recent graduates should have earned an average of B (80) in all undergraduate courses. Less emphasis is placed on the undergraduate standing of applicants whose undergraduate study was completed several years ago, but the professional experience and interests of such applicants will be carefully weighed. All appli-

cants should have a considerable background in the liberal arts and all should have attained facility in the use of English.

Transcripts of all college work must accompany the application form, a copy of which can be obtained from the Office of Graduate Studies. In certain cases applicants may also be asked to submit the results of the Graduate Record Examination or other supporting data. An interview at the Office of Graduate Studies or with the appropriate departmental adviser may be required after all materials pertinent to application have been assembled.

Applications which are completed by April 1 will be considered prior to May 1. Applications completed by November 1 will be considered prior to December 1.

DEGREE REQUIREMENTS

A full-year course, identified by a hyphenated number (651-652 for example), is defined as a unit of study for which six or eight semester hours of credit are awarded. A half-year course, identified by a single number (501 for example), carries three or four semester hours of credit.

To receive the Master's degree the candidate must complete a minimum of ten half-year courses or the equivalent in full and half-year courses at the graduate level with satisfactory grades (*see Graduate Grades*). The candidate must demonstrate proficiency in whatever language, if any, his major department specifies. Under certain conditions as many as two half-year courses (six semester hours) from another graduate school will be credited toward the requirements for the Master's degree at Trinity.

It is implicit in the conferral of any earned degree that study toward that degree has assumed an important position in the student's life. Consistent with this implication is the imposition of a time limit within which the requirements for a degree must be completed. At Trinity College the requirements for the Master's degree must be completed within six years from the beginning of study toward the degree. The time limit will be specified in each letter of approval of candidacy. Students who fail to complete the requirements within the designated time may apply for readmission. This second application must be accompanied by a letter which will include a detailed explanation for the failure to complete the requirements within six years. Readmission will not necessarily be granted and, if granted, will normally include a requirement that no more than half of the credit previously earned be applied toward the Master's degree.

TRANSFER CREDIT

Under certain conditions Trinity will accept credit up to a maximum of six semester hours (two half-year courses) of graduate work completed at other accredited institutions; grades received in such courses must meet the minimum standard for graduate study at Trinity ("B-" or higher); and such courses must be considered equivalent to Trinity offerings.

Candidates desiring transfer credit should: 1) submit to the Graduate Office in writing a full course description; 2) provide a written request for transfer credit to the Office of Graduate Studies, preferably in advance of actual registration in the course to be transferred; 3) arrange to have an official transcript of their record sent to the Graduate Office.

THE THESIS AND COMPREHENSIVES

A thesis is required of all candidates in chemistry, economics, English, government, history, and philosophy, and of some candidates in education. Normally, the thesis is the final project undertaken for completion of degree requirements. When a student has chosen a tentative topic or a particular field of study in which he would like to do his thesis research, he is assigned to a thesis adviser by the chairman of his department. (The chairman may, if he deems it necessary, require of the student evidence of his ability to do scholarly writing before assigning him to an adviser or before forwarding notice of the acceptance of the plan and outline of the thesis project.) After the student has met with his adviser and submitted to him a satisfactory plan and outline for his project, the adviser and the department chairman will indicate their approval by signing the Thesis Approval form entitling the student to register with the Graduate Office for course 651-652 of that department. Course credit for the thesis (six semester hours) will be awarded upon its final approval by the adviser and a second reader designated by the chairman of the major department or the Office of Graduate Studies. The thesis, in final form, must be submitted not later than May 1 of the year in which the candidate expects to receive his degree.

A student undertaking to write a thesis should obtain from the Graduate Office a copy of the "Instructions Regarding the Preparation and Submission of Masters' Theses at Trinity College" and should consult his department chairman to learn of the particular procedures which his department requires.

The College and the departments expect that normally a student will complete his thesis in the same year in which he registers for it. A student who fails to

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complete the thesis within this period (twelve months from the date of registration), and whose time limit for completion of the degree requirements has not yet expired, must register each year until his thesis is completed as a "Visiting Scholar." He shall pay the registration fee and a research fee of \$80 each year.

If the major department specifies that the candidate will take a comprehensive examination in lieu of a thesis the candidate must submit in writing to the Graduate Office by March 15 of the year in which he expects to receive the degree a request for the examination. The examination will be scheduled at the convenience of the department in April or May. Comprehensive examinations are scheduled during the Summer Term in the Department of Classics and in early fall and late spring in the Department of Modern Languages. If the student fails the examination, a second and final examination may be requested for administration not earlier than six months nor later than one year after the initial examination. A grade but no credit is awarded for the comprehensive examination.

By February 14 prior to the Commencement at which the student expects to receive his degree, he must file an application for conferral of the degree. A form for this purpose will be provided by the Graduate Office on request.

SIXTH YEAR FOR TEACHERS

Programs of study fitted to individual needs are available to teachers who have earned the Bachelor's and Master's degrees. Each program will be planned in conference by the graduate student and the Office of Graduate Studies, and certification of satisfactory performance will be furnished at the conclusion of study to whatever authorities the student designates.

GRADUATE GRADES

At the conclusion of each course and comprehensive examination each graduate student will receive a grade from this scale:

Distinction - High Pass - Pass - Low Pass - Failure

Theses will be graded with one of the following:

Honors - Pass - Fail

Although equivalence of grades between graduate and undergraduate courses is difficult to define, it is generally agreed among colleges that graduate students will be expected to attain a higher level of achievement than would be expected

of undergraduates. Frequently this expectation is expressed in a requirement that graduate credit will be awarded only for courses in which a grade of B or higher is earned. The faculty of Trinity College regards two passing grades (A and B, for example) as inadequate differentiation of the quality of acceptable achievement for graduate students. Therefore, the restricted range of achievement for which graduate credit is awarded has been divided into three. It should be understood that the grades of Distinction, High Pass, and Pass are NOT equivalent to A, B, and C, but represent a finer division of the A and B range.

Whenever a candidate for the Master's degree has received a total of two grades of Low Pass and/or Failure in his major field of study, or three such grades regardless of field, his eligibility for further study will be terminated. No more than one grade of Low Pass will be credited toward the requirements for the Master's degree.

Graduate students who are not approved candidates for the Master's degree, will be ineligible for candidacy for the Master's degree if they receive two grades lower than Pass regardless of field.

NON-CREDIT ATTENDANCE

Persons who do not wish to receive credit for specific courses may, with permission of the Office of Graduate Studies, register as auditors. They will receive no credit and no grade, but a record of their attendance will be made. They need not always fulfill the prerequisites of the course and are not required to take examinations. The charge will be the same as if the course were taken for credit.

Graduate students who have been accepted as candidates for the Master's degree at Trinity College and who have completed or are currently enrolled in two half-year courses at the graduate level will be allowed to audit without charge a total of two half-year courses. This privilege is without time limit; the courses may be audited prior to or after the completion of the degree requirements. In each case, however, permission to take a "Graduate Audit" must be obtained from the Office of Graduate Studies.

WITHDRAWAL

Registration for a course is a commitment to complete the course. Request for withdrawal and reasons for the request must be included in a letter addressed to the Office of Graduate Studies. Withdrawal is not accomplished by failure to

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attend classes or by notification to the instructor. Students contemplating withdrawal should, if possible, continue their attendance until a reply to their request is received. Unauthorized withdrawal will result in a grade of failure in the course.

No graduate student will be permitted to withdraw from a course after the twelfth week of that course.

COSTS

Tuition charges are determined on the basis of the number of full-year courses and half-year courses for which the student enrolls. Graduate students should note the statement pertaining to them under the heading, *Non-Credit Attendance*.

TUITION CHARGES

	<i>Half-year Course</i>	<i>Full-year Course</i>
Graduate Students	\$120	\$240
Undergraduate Students	\$150	\$300

In addition to tuition charges each student must pay a registration fee of five dollars per term. This fee is not refundable. Full payment of all costs must accompany registration for each semester.

Only in cases of withdrawal made necessary by such unexpected causes as sickness or call to military service will refunds of tuition be made. Such refunds will be made in accordance with this schedule: three-fourths tuition for withdrawal during the first and second week of classes; one-half during the third week; no refund in any case after that.

Financial Assistance

Graduate students seeking financial assistance should direct all inquiries to the Office of Graduate Studies and make formal application for fellowships or loans on the appropriate forms issued by that office.

Financial assistance is available only to those graduate students who are approved candidates for the Master's degree and is usually granted to those students

who have completed a minimum of two half-year courses at Trinity. Preference is given to secondary school teachers and financial need is one of the factors considered.

Trinity Graduate Fellowships

A limited number of fellowships entitling recipients to exemption of part of tuition costs is available.

Mitchell B. Stock Fellowship

This fellowship is awarded annually to a secondary school teacher who has shown unusual academic promise in pursuit of the Master's degree at Trinity.

Guaranteed Insured Loan Program

Attention is called to the existence of various state educational loan plans established under the Higher Education Act of 1965. For residents of Connecticut, loans up to \$1,500 per year are available for graduate study. The United States Government will subsidize the interest payments if the adjusted family income is \$15,000 or less and the student is enrolled on at least a "half-time basis." Information on state loan programs is available from the Director of Financial Aid at Trinity.

VETERANS

Students admitted to Trinity who intend to study under Public Law 89-358 should, upon admission to Trinity, communicate with their local Veterans' Administration Office, requesting an application for a program of education under this law.

THE TRINITY COLLEGE LIBRARY

Graduate study is possible only where there is a fine library. Trinity's collection of more than 475,000 volumes and 100,000 pamphlets, housed in a modern structure

embodying the latest in library construction theory and method, provides exceptional opportunities for graduate study. The library adds approximately 8,000 volumes per year and subscribes to over 1,500 periodicals.

Seminar classes often meet in the library's seminar rooms, close by the volumes they utilize. The Reference Librarian provides assistance in the use of the library in connection with term papers and theses.

PLACEMENT OFFICE

Graduate students may make use of the Placement Office for information about careers. During the regular academic year this office arranges to have representatives from graduate schools, business, and industry visit the College. The Director of Placement also serves as liaison for bursary employment and for part-time, off-campus employment.

REGULATIONS

Absences. Students are expected to attend all class meetings; they are not "entitled" to any absences. Excessive absences will be sufficient cause for required withdrawal. An absence from an announced examination may be excused only for sickness certified by a doctor or emergencies by the Office of Graduate Studies.

Parking. Students attending classes meeting in Williams Memorial, Seabury Hall, or Goodwin must park in the lots adjacent to either Jarvis Hall or the Chapel. Those with classes meeting in the Library or McCook Center must park in either the lot next to the Field House or on Broad Street. Students who park on Summit Street do so at their own risk.

Inclement Weather. It is always a problem to notify students that a class will or will not meet during inclement weather. During the 1968-69 academic year this procedure will be followed: Each instructor will use his discretion regarding the meeting of his class when poor weather conditions prevail or are predicted. He will provide the members of his class with a telephone number at which he can be reached between five and six P.M. prior to the scheduled meeting of the class at seven P.M. to convey his decision. For this information students should NOT call the College switchboard or the Graduate Office.

HOURS

Graduate Office

The graduate office is open daily, except Saturday and Sunday, from 9:00 A.M. until 12:00 noon and from 1:00 P.M. until 5:00 P.M. Appointments may be arranged early in the evening on Mondays and Tuesdays.

Classes

Unless otherwise noted in the description, each course will meet once each week and carry three semester hours of credit.

Classes which meet during the week, Monday through Thursday, will be held in the evening from 7:00 to 10:00 P.M., or from 5:00 to 6:15 P.M., 7:00 to 8:15 P.M., or 8:30 to 9:15 P.M. if scheduled for two meetings per week.

Trinity College Library

Monday through Saturday, 8:30 A.M. to 12:00 midnight

Sunday, 2:00 P.M. to 12:00 midnight

During vacation periods the library will post a special schedule of hours.

Mather Hall

Bookstore – 6:30 P.M. to 7:30 P.M. on the first four evenings of classes in each term. Regular hours daily from 9:00 A.M. to 4:00 P.M. and Saturdays, 9:00 A.M. to noon.

Cave – Monday through Thursday, 7:30 A.M. to 11:00 P.M. Friday 7:30 A.M. to 10:00 P.M.

Saturday – 8:00 A.M. to 9:00 P.M.

Sunday – 10:00 A.M. to 8:00 P.M.

Lounges – Daily, 7:00 A.M. to 1:00 A.M.

McCook Library

Open specifically for graduate students Monday through Thursday evenings from 6:00 P.M. to 10:00 P.M.

Austin Arts Center

Monday through Friday, 9:00 A.M. to 12:00 midnight

Saturday – 1:00 P.M. to 5:00 P.M.

Sunday – 1:00 P.M. to 5:00 P.M. and 7:00 P.M. to 12:00 midnight

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REGISTRATION

Christmas Term

Registration by mail opens August 1.

Students may also register in person at the Graduate Office, Monday through Friday, from 9:00 A.M. to 12:00 noon and from 1:00 P.M. to 5:00 P.M.

Students wishing to meet with advisers September 11 may register following their consultation (see reverse side of registration cards).

For courses which have not reached their limit of enrollment, registration will be accepted as late as the end of the first week of classes. In addition to the regular daily hours the Graduate Office will be open from 6:30 to 7:30 P.M., Monday through Thursday, of the first week of classes.

Full payment of tuition and registration fee must accompany each registration - including vouchers issued by employers.

Trinity Term

Registration by mail opens December 1.

Students may also register in person at the Graduate Office, Monday through Friday, from 9:00 A.M. to 12:00 noon and from 1:00 P.M. to 5:00 P.M.

There will be no adviser session prior to the Trinity Term. Students should consult with their advisers during the preceding term.

For courses which have not reached their limit of enrollment, registration will be accepted as late as the end of the first week of classes. In addition to the regular daily hours the Graduate Office will be open from 6:30 P.M. to 7:30 P.M., Monday through Thursday, of the first week of classes.

Full payment of tuition and registration fee must accompany each registration - including vouchers issued by employers.

Students are urged to register early as enrollment in most courses is limited. Students are registered in courses in the order in which registrations are received. Approved Master's degree candidates will be given preference on enrollment in graduate courses.

Courses of Instruction

Christmas Term — September to December

Trinity Term — January to May

CHEMISTRY

Chairman and Graduate Adviser:

PROFESSOR ROBERT H. SMELLIE

A two-year, full-time program in chemistry leading to the Master of Science degree is offered by Trinity College. It involves course work and an advanced research project leading to a thesis of a character suitable for publication. A reading knowledge of German is required for the Master of Science degree. The Department has a limited number of graduate assistantships open to Master's degree candidates.

Graduation from an accredited college with a major in chemistry is required for admission to this program. Courses taken must include at least one year of general chemistry (with qualitative analysis included as a separate course) and one year each of quantitative analysis, organic, and physical chemistry. Two years each of college mathematics (calculus) and college physics are also required.

Students interested in this program should consult the chairman of the Chemistry Department.

There are no evening graduate courses in chemistry.

ECONOMICS

Chairman: Professor Richard Scheuch

Graduate Adviser: Professor Randall W. Tucker

The Master of Arts program in economics is designed for two categories of students: for men and women in business, education, and government who view the Master's degree as a terminal degree, the program provides an analytical approach to a variety of contemporary economic problems; for students who plan to pursue study beyond the MA degree, the program offers rigorous training in the fundamentals of the discipline. Students who are candidates for admission to the Master's program in economics are expected to have completed substantial undergraduate work in

economics. However, students with outstanding undergraduate records and only minimal work in economics have been admitted to the program.

All persons who desire to major in economics, or who merely desire to register in Economics 501, must demonstrate competence to undertake study at this level by passing a qualifying examination. Those who achieve a grade of Distinction in this examination will be exempted from taking Economics 501; it is recommended that such persons enroll in Economics 504. Those who are not qualified to enroll in Economics 501 should enroll in Economics 500, which is designed for students who need to refresh their understanding of basic economics, or who have had little or no undergraduate training in economics.

Economics 501 is a prerequisite to all other courses in the Department except Economics 561: *Statistics for Economics* and Economics 572: *Managerial Accounting*. Students with a strong background in economics may, with the approval of the Department, substitute for two of the required ten half-year courses in economics two half-year courses in a related field. Every Master's candidate must include among his ten half-year courses Economics 651-652: *Thesis*.

Courses in the Economics Program

- | | |
|---|--------------------------------------|
| 500. Economic Principles and Problems | 542. Fiscal Policy |
| 501. Price Theory | 551. International Economics |
| 504. Mathematical Economics | 552. International Economic Problems |
| 511. Money and Banking | 554. Economic Development |
| 512. National Income Analysis and Business Cycles | 561. Statistics for Economics |
| 521. Economic History of Western Europe | 572. Managerial Accounting |
| 522. Economic History of the United States | 575. Comparative Economic Systems |
| 531. Labor Economics | 581. Government and Industry |
| 532. Union-Management Relations | 585. Corporation Finance |
| 541. Public Finance | 591. History of Economic Thought |
| | 651-652. Thesis |

Christmas Term – September to December

ECONOMICS 500. Economic Principles and Problems – Monday. The study of some basic economic principles pertaining to the operation of the pricing system, income distribution, national income analysis, monetary and fiscal policy, and international trade. Using these principles an inquiry will be made into the government's role in the economy, the problems of industrial combinations, the question of agricultural sur-

pluses, and the function of labor unions in the economy.

This course may be taken for graduate credit but will not be credited toward the requirements for the Master's degree in economics. It is designed for those who have not previously studied economics and for those who wish to refresh their understanding of basic economics.

Seabury 4 – Mr. Egan.

ECONOMICS 501. Price Theory – Monday. A study of resource allocation and product distribution in a market system. Market behavior is analyzed in terms of the determinants of demand, the supply conditions of productive services, the logic of the productive process, and the institutional structure of markets. The purpose of the course, required of all students majoring in economics, is to provide rigorous training in fundamental analytical techniques.

All students wishing to enroll in Economics 501 must demonstrate a competence to undertake study in economics at the graduate level by passing a self-administered qualifying test. Those who receive a grade of Distinction on this test will be exempted from Economics 501. Those not qualified to enroll in Economics 501 should enroll in Economics 500. The test, which may be obtained upon application from the Office of Graduate Studies, must be returned to that office within five days and no later, in any case, than Thursday, September 12.

Seabury 9 – Mr. Wadbrook.

ECONOMICS 512 (1). National Income Analysis and Business Cycles – Monday. National income accounts; determinants of the national income; nature and causes of economic fluctuations; business cycles the-

ories; policies for controlling business fluctuations. Prerequisite: Economics 501 or equivalent.

Williams Memorial 301 – Mr. Towle.

ECONOMICS 522 (1). Economic History of the United States – Tuesday. A study of the process and problems of economic development in the United States from 1800 to the present. Prerequisite: Economics 501 or equivalent.

McCook 213 – Mr. Battis.

ECONOMICS 591. History of Economic Thought – Thursday. The history of economic doctrines from Aristotle to Keynes. Special emphasis upon the contributions of major economists to the development of value and distribution theories. The course will conclude with an examination of selected topics in contemporary economic thought. Prerequisite: Economics 501 or equivalent.

Williams Memorial 301 – Mr. Dunn.

ECONOMICS 651-652. Thesis. – Conference hours by appointment. Six semester hours. Investigation and report of an original research project. See *Degree Requirements*.

Mr. Scheuch and Staff.

Trinity Term – January to May

ECONOMICS 501 (2). Price Theory – Monday. A study of resource allocation and product distribution in a market system. Market behavior is analyzed in terms of the determinants of demand, the supply conditions of productive services, the logic of the productive process, and the institutional structure of markets. The purpose of the course, required of all students majoring in economics, is to provide rigorous training in fundamental analytical techniques.

All students wishing to enroll in Economics 501 must demonstrate a competence to undertake study in economics at the graduate level by passing a self-administered qualifying test. Those who receive a grade of Distinction on this test will be exempted from Economics 501. Those not qualified to enroll in Economics 501 should enroll in Economics 500 in September 1969. The test, which may be obtained upon application from the Office of Graduate Studies, must

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be returned to that office within five days and no later, in any case, than Wednesday, January 15, 1969.

Williams Memorial 301 – Mr. Wadbrook.

ECONOMICS 504. Mathematical Economics – Monday. The application of mathematical techniques to problems of microeconomics and macroeconomics; introduction to the techniques of econometrics. The course is designed primarily for economics majors with limited mathematical backgrounds. Prerequisite: Economics 501 or equivalent and permission of the instructor.

McCook 225 – Mr. Egan.

ECONOMICS 532. Union-Management Relations – Tuesday. Description and analysis of the union movement in America and of the impact of unions upon the economy. Will include intensive study of industrial relations in selected industries and in the public sector. Prerequisite: Economics 501 or equivalent.

Williams Memorial 301 – Mr. Scheuch.

ECONOMICS 572. Managerial Accounting – Thursday. Introduction to general finan-

cial controls, the use and preparation of certain accounting records and statements on the part of management in controlling fiscal matters and in the formulation of policies. Emphasis is placed upon the theoretical and economic-conditioned matters involved in managerial decisions, thereby dealing with the results of general and corporate accounting procedures rather than with the procedures themselves. Presupposes a knowledge of elementary accounting principles.

Williams Memorial 301 – Mr. Tucker.

ECONOMICS 575(2). Comparative Economic Systems – Thursday. A study of competitive capitalism, market socialism, and central planning; and a comparison of economic organization, resource allocation problems, and growth processes in several advanced economies. Prerequisite: Economics 501 or equivalent.

McCook 213 – Mr. Battis.

ECONOMICS 651-652. Thesis. – Conference hours by appointment. Six semester hours. Investigation and report of an original research project. See *Degree Requirements*.

Mr. Scheuch and Staff.

EDUCATION

Chairman and Graduate Adviser:

PROFESSOR ALEXANDER A. MACKIMMIE, JR.

Graduate study in education is broadly conceived by the Department as providing course offerings of value and interest for (a) elementary and secondary school teachers in service, (b) prospective secondary school teachers, (c) individuals in other occupations whose work is educational in character, and (d) those persons, not professionally concerned with education, who desire to achieve a better understanding of the problems currently facing public and independent schools.

The Department has held the number of highly specialized courses to a minimum. It believes that an understanding of the history, philosophy, and psychology of education is fundamental to the formulation of sound judgments on the specific issues in education today. Many of the courses are pertinent to education at all levels of instruction in both public and independent schools. In addition, the Department recommends that the student give consideration to the course offerings of the other departments, many of which are of interest to students majoring in education.

Candidates for the Master of Arts degree with a major in education must complete at least five half-year courses within the Department. The candidate will be advised to select the remainder of the degree program from courses which will serve the best interests of the individual, provided the courses selected meet with the prior approval of the Department. Either a thesis (Education 651-652) or its equivalent in course credits plus a Comprehensive Examination is required for the degree. All candidates are also required to take Education 600: *Problems in Education*.

Trinity is approved for the preparation of teachers of academic subjects in public junior and senior high schools in Connecticut. The certification program will also meet the requirements of most other states. Students desiring to prepare for secondary certification must be approved as candidates for the Master's degree (in education or another subject). Those interested should consult the Department concerning the details of the state requirements.

Teachers accepted for a planned course of study leading to certification under the provisions of the State Department of Education's special Temporary Emergency Permit program are required to enroll in Education 491-492: *Student Teaching*. Students in this category will be involved in all the basic activities and phases of the practice teaching experience, including supervision by the Department of Education staff members and attendance at the seminar sessions. However, because they are not taking over the classes of a faculty member of the school in which they are serving, ordinarily the students will not be under the direction of a critic teacher. Graduate credit is not given for Education 491-492.

In order to enable some candidates for the master's degree in Education to strengthen limited subject-matter areas in which they are, or may be, employed to teach and thereby to improve their professional competence, the Department of Education, in collaboration with certain academic departments of the College, may recommend a program of studies whereby the teacher-candidate may include a maximum of two half-courses in undergraduate work for graduate credit.

It is understood that this possibility will be approved only when there is a clear and specific need to meet prerequisites for advanced study available only by first

taking certain undergraduate courses, as is often the case with the sequence of courses in the sciences and mathematics.

The two half-courses approved under this proposal will normally include junior and senior level courses offered in any term of the College (fall, spring or the summer sessions). Under no circumstances will credit be transferable from courses taken in fulfillment of the requirements for the bachelor's degree at Trinity College or elsewhere, nor will permission be granted to transfer undergraduate credit to the student's graduate record for courses taken at any institution other than Trinity College.

Courses in the Education Program

Courses in education are available in both the summer and winter terms. To enable candidates studying in the summers only to complete the requirements for the Master's degree in a minimum of three summers, courses will be available on an alternating basis. The complete list of courses is as follows:

- | | |
|--------------------------------------|-------------------------------------|
| 501. History of Education | 541. Educational Measurement and |
| 502. Philosophies of Education | Evaluation |
| 503. Developmental Psychology | 543. Principles of Guidance |
| 504. Differential Psychology | 570. School Law |
| 507. School and Society | 600. Problems in Education |
| 521. Secondary School Teaching | 601. Seminar: Research in Education |
| 522. Secondary School Administration | 602. Seminar: Various Topics |
| 524. Secondary School Curriculum | 651-652. Thesis |

Christmas Term – September to December

EDUCATION 491-492. Student Teaching. May not be taken for graduate credit. Six semester hours of undergraduate credit. A laboratory course of supervised observation and teaching experience in cooperating secondary schools in the Capital Area. The course also includes a series of seminar sessions. The student should be able to spend a full day at the secondary school for a period of at least nine weeks and must ordinarily observe or teach approximately 140 school periods. Prerequisites: approval as a candidate for the Master's degree and completion

of six semester hours of study in education at Trinity College. Enrollment is limited and permission of the instructor is required. Additional fee: ten dollars.

McCook 204 – Mr. Skirm and Staff.

***EDUCATION 501. History of Education – Tuesday.** A study of the basic ideas, institutions, and practices of contemporary education in the light of their historical development from the earliest times to the present. The student will be required to read selected

primary sources – chiefly from the classics of educational literature – in order to assist him in interpreting and reconstructing the history of educational thought.

McCook 225 – Mr. Morris.

*EDUCATION 503. Developmental Psychology – *Monday*. A study of human behavior in terms of process, with an examination of representative theories of development as to both their underlying assumptions and their implications for educational practice. Attention will be centered on normal human development throughout the life span, and physical, mental, and emotional growth will be treated as parts of total maturational patterns.

McCook 225 – Mr. Decker.

*EDUCATION 521. Secondary School Teaching – *Wednesday*. A study of secondary education in America, with emphasis upon current aims, curriculum patterns, and teaching methods and materials. Each student will be encouraged to pursue particular interests within his areas of academic specialization; for the student preparing to

teach, course requirements will be pointed toward his professional practice.

McCook 225 – Mr. Mackimmie.

*EDUCATION 570 (1). School Law – *Thursday*. A study of the historical development in the United States of that special body of law, both statutory and common, pertaining to education. Specific problems of status and control will be pursued, where possible, by means of primary source material – state constitutions, statutes, and common law rulings.

McCook 204 – Mr. Morris.

EDUCATION 601. Seminar: Research in Education – *Wednesday*. This course is designed primarily for those who plan to write a thesis in education in partial fulfillment of the requirements for the Master's degree. A study of the historical, philosophical, and statistical methods, including the collection and organization of data appropriate to research in education. Prerequisite: Permission of the instructor.

McCook 204 – Mr. Decker.

Trinity Term – January to May

EDUCATION 491–492. Student Teaching. May not be taken for graduate credit. Six semester hours of undergraduate credit. A laboratory course of supervised observation and teaching experience in cooperating secondary schools in the Capital Area. The course also includes a series of seminar sessions. The student should be able to spend a full day at the secondary school for a period of at least nine weeks and must ordinarily observe or teach approximately 140 school periods. Prerequisites: approval as a candidate for the Master's degree and completion of six semester hours of study in education at Trinity College. Enrollment is lim-

ited and permission of the instructor is required. Additional fee: ten dollars.

McCook 204 – Mr. Skirm and Staff.

*EDUCATION 504. Differential Psychology – *Monday*. A study of quantitative data concerning individual, group, and trait differences, and the validity and reliability of those measuring instruments through which the data are secured.

McCook 213 – Mr. Decker.

*EDUCATION 507(2). The School and Society – *Tuesday*. A study of the school as a

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social institution. Data will be drawn from recent findings in anthropology, sociology, and psychology. Community power structure, social class, economic status, and population problems in contemporary American society will be analyzed as these impinge on school policy.

McCook 225 – Mr. Mackimmie.

***EDUCATION 524. Secondary School Curriculum – Wednesday.** A study of the history and problems involved in curriculum change in the secondary school, including an analysis of trends and developments in various subjects in the curriculum. Emphasis will be placed on the role of the local school faculty in curriculum development.

McCook 213 – Mr. Skirm.

***EDUCATION 541(2). Educational Measurement and Evaluation – Wednesday.** A critical examination of principles involved

in the appraisal of human behavior, with emphasis upon the construction of tests for specific purposes, the use of standard group achievement and aptitude tests, and simple statistical methods involved in the interpretation of test results.

McCook 225 – Mr. Decker.

EDUCATION 600. Problems in Education – Thursday. A study, through reading and discussion, of selected contemporary issues and problems in education. These areas will be studied in terms of the historical, philosophical, or sociological principles involved in their analysis and understanding and will be traced through all levels of the educational system. When possible, specialists from the major fields under consideration will participate in the discussions. This course is required for Master's candidates.

McCook 225 – Mr. Mackimmie.

ENGLISH

Chairman and Graduate Adviser:

PROFESSOR J. BARD McNULTY

Graduate courses in English at Trinity are designed for persons with a solid background of study in English who have a professional or personal interest in pursuing advanced work under guidance, probably proceeding to the M.A. degree and beyond. Although the majority of students are usually teachers of English in secondary schools, the program welcomes all interested and qualified persons no matter what their occupations. Each course emphasizes depth of subject matter, accuracy of scholarly research, and range of critical understanding.

A student is expected to have completed an undergraduate major in English, or its equivalent in English courses, to the extent of 24 hours or credits exclusive of freshman English, speech, or journalism. Students applying for candidacy for the degree of Master of Arts with a major in English should meet the above requirements with a grade average of at least B or 80. Also, all students beginning graduate courses in English at Trinity for the first time, regardless of whether or

not they intend to apply eventually for degree candidacy, must have their academic credentials reviewed by the Graduate Office prior to registration; an average of at least B is usually required. Candidates for degrees in other fields who have had 15 hours of English may be admitted to English courses by permission of the Chairman.

Candidates are required to take a total of ten half-year courses, of which eight must be in the Department. Outside the Department, candidates may take any graduate course in history, linguistics, philosophy, religion, and ancient or modern foreign language or literature.

The Department of English offers two alternative sequences of courses leading to the M.A. in English, as follows:

Sequence I. Courses:

1. English 593. *English Language and Linguistics*
2. English 579. *Literary Criticism*
3. English 591. *Studies in Ideas: The Study of English*
4. A Period Course (553, 557, 559, 561, 562, 563, 575, 576)
5. A Genre Course (571, 573, 574, 577, 581)
6. A Course in a Major Writer (553, 558, 581 [Major writer] Note: The course taken to satisfy this requirement may not duplicate one taken to satisfy the requirements under 4. and 5., above.)
7. Elective
8. Elective
9. Thesis
10. Thesis (continued)

Sequence II. Courses:

1. English 593. *English Language and Linguistics*
2. English 579. *Literary Criticism*
3. English 591. *Studies in Ideas: The Study of English*
4. A Period Course (553, 557, 559, 561, 562, 563, 575, 576)
5. A Genre Course (571, 573, 574, 577, 581)
6. A Course in a Major Writer (553, 558, 581 [Major writer] Note: The course taken to satisfy this requirement may not duplicate one taken to satisfy the requirements under 4. and 5. above.)
7. Elective (See 10., below.)
8. Elective (See 10., below.)
9. Elective (See 10., below.)
10. Three papers related to 7, 8, and 9, above.

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Courses 7, 8, and 9 may be taken consecutively or concurrently. For each of the three, the student is to write an extended paper *in addition* to the papers regularly assigned in the course. These three extra papers are to be related to a general topic which the student is to propose, and which the Department is to approve *before* the student may elect courses 7, 8, and 9. (Example: A student might elect to take courses in *Chaucer*, *narrative poetry*, and *satire*, with three papers on the general topic of "Chaucer's Use of Satire in Narrative Poetry," written under the guidance of a member of the Department. The task of organizing such a program is to be upon the student; his ability to organize will, in fact, be the preliminary test of his qualifications for taking this sequence.) After successful completion of the three papers, the student will receive a total of 3 semester hour credits, which will constitute full credit for Course No. 10.

Summer Program in English

The program for subsequent summer terms will usually include the following course areas:

Every summer

1. Linguistics
2. Advanced Composition
3. Literary Criticism
4. Thesis

1969	1970	1971
Genre: Drama	Genre: Poetry	Genre: Fiction
Genre: Poetry	Genre: Drama	Genre: Epic
Period: Renaissance	Genre: Satire	Period: Medieval
Period: 19th Century	Period: Renaissance	Period: Neo-Classical
Period: Modern	Period: Modern	Period: Modern
Period: American	Period: American	Period: American
Writer: Modern	Writer: Shakespeare	Writer: Milton

Courses in the English Program

- | | |
|--|---|
| 501. Advanced Literary Writing | 573, 574. Studies in Fiction |
| 553. Studies in Chaucer | 575, 576. Studies in American Literature |
| 557. Studies in the Renaissance | 577. Studies in Poetry |
| 558. Milton | 579. Studies in Criticism |
| 559. Studies in Neo-Classicism | 581. Shakespeare |
| 561. Studies in Romanticism | 591. Studies in Ideas |
| 562. Studies in Victorian Literature | 593. Studies in English Language
and Linguistics |
| 563. Studies in Contemporary
Literature | 651-652. Thesis |
| 571. Studies in Drama | |

Christmas Term – September to December

ENGLISH 501. Advanced Expository Writing – *Tuesday*. The study and practice of expository writing in its several forms, together with advanced study of language, rhetoric, logic, and expression. For elementary and secondary school teachers and others.

Seabury 16 – Mr. Risdon.

ENGLISH 559. Studies in Renaissance Literary History – *Wednesday*. The rise of modern fiction and poetry (exclusive of drama) in sixteenth-century England. Special emphasis on the Elizabethan lyric, the works of Spenser, and the poems of Shakespeare. Reports on cultural backgrounds and a term paper.

Seabury 16 – Mr. Cameron.

ENGLISH 579. Studies in Literary Criticism – *Monday*. A general view of the scope, theory, principles, and practice of literary criticism, including a consideration of intrinsic and extrinsic approaches and a study of the specific techniques of formalist, bio-

graphical, psychological, sociological, ideological, and mythological criticism.

Seabury 16 – Mr. Benton.

ENGLISH 593. Studies in English Language and Linguistics – *Thursday*. An introduction to general linguistics, including brief overviews of various theories of language such as the immediate constituent, transformational, tagmemic, and stratificational. Emphasis will be on the application of this material to the study and teaching of the English language and literature.

Seabury 16 – Mr. Williams.

ENGLISH 651-652. Thesis – Conference hours by appointment. Six semester hours. A project involving scholarly research, critical thinking, and formal writing. Proposals for theses must be submitted by October 1 for assignment of an adviser. The course must be completed during the academic year in which it is begun. See *Degree Requirements* and separate English Department statement.

Mr. McNulty and Staff.

Trinity Term – January to May

ENGLISH 563(2). Studies in Contemporary Literature: The Irish Renaissance – *Thursday*. Seminar in major writers and movements from the "Young Ireland" and early Yeats period to Patrick Kavanaugh, with emphasis on Yeats, Synge, O'Casey, Joyce, Behan, and Beckett.

Seabury 16 – Mr. Gardner.

ENGLISH 571(2). Studies in Drama: Medieval Drama – *Tuesday*. Reading of the cycle plays and the moralities. An intensive study will be made of the Wakefield cycle – its literary art and the Biblical and theological background. Related plays from

other cycles will be read, along with the major morality plays.

Seabury 16 – Mr. R. J. Lee.

ENGLISH 575(2). Seminar: Frost – *Monday*. The study of Frost's available poetry; class discussion (with particular reference to the principal scholarly critiques) of much of it, selected for quality or as representative of significant dimensions (forms, modes, themes, etc.) of the poet's work. Some consideration of cultural and biographical background.

Library, Seminar II – Mr. Potter.

ENGLISH 581(2). Studies in Shakespeare: Shakespearean Tragedy – *Wednesday*. A critical reading of *Othello*, *Lear*, *Hamlet*, and *Macbeth* in the light of Renaissance tragic traditions and with the help of modern critical commentaries. Oral interpretation, LP discs, reports, and a term paper.
Seabury 16 – Mr. Cameron.

ENGLISH 591. Studies in Ideas: The Study of English – *Wednesday*. For students who are teachers or prospective teachers of English, this course will attempt to clarify the principles and practices of studying and teaching English in school and college. Not a methods course, it will explore the theory and practice of English language study of composition, and of literary criticism, prima-

rily for the educational benefit of the student-teacher himself, but with some attention to the possibilities and problems of teaching language, writing, and literature in school and college.

Goodwin Lounge – Mr. P. Smith.

ENGLISH 651-652. Thesis – Conference hours by appointment. Six semester hours. A project involving scholarly research, critical thinking, and formal writing. Proposals for theses must be submitted by October 1 for assignment of an adviser. The course must be completed during the academic year in which it is begun. See *Degree Requirements* and separate English Department statement.

Mr. McNulty and Staff.

GOVERNMENT

Chairman: PROFESSOR MURRAY S. STEDMAN, JR.

Graduate Adviser: PROFESSOR REX C. NEAVERSON

The program leading to a Master of Arts degree in Government has been designed to meet the needs both of persons with a general interest in political science and also of persons currently engaged in public service. Over the years the program has therefore attracted candidates from such fields as education, law, religion, and the civil service. Candidates for the degree should normally hold a bachelor's degree in one of the social sciences or in history. However, a candidate who majored in another area as an undergraduate may be considered. The Department passes upon the eligibility of all applicants.

Candidates for the Master of Arts degree in government are required to complete a total of ten half-year courses, of which eight must be in the Department, including Government 651-652 *Thesis*. Courses taken in related areas, normally history, economics, or philosophy, must be approved by the Department Chairman or Graduate Adviser.

New students ordinarily are required to take Government 501: *Introduction to Political Science* as the first course in their program of study. This course is offered in the Christmas Term each year. Those who enter as students in the Trinity Term will be permitted to start their study with another government course

provided they have the approval of the Department Chairman or Graduate Adviser and provided also that they take Government 501 as the second course in their program.

New students will be formally accepted as candidates for the Master's degree after satisfactory completion of Government 501 or its equivalent, subject to the approval of the Department Chairman or Graduate Adviser.

Students who have an adequate undergraduate background in government or who have other satisfactory qualifications may ask permission to omit Government 501.

Students who do not intend to become candidates for the Master's degree in government but who wish to take courses offered by the Department may do so without completing Government 501 provided they have the permission and approval of the Department Chairman or Graduate Adviser.

Degree candidates should inform the Graduate Adviser in writing of the probable area of thesis topic not later than upon completion of their third course in the Department.

Courses in the Government Program

- 501. Introduction to Political Science
- 502. American National Government
- 504. American Political Thought
- 508. Totalitarian Government and Politics
- 509. Congress and the Legislative Process
- 511. Public Administration
- 512. Metropolitan Government
- 513. American Political Parties
- 514. American Constitutional Law
- 515. American Foreign Policy

- 517. Government and Politics of Latin America
- 521. International Politics
- 522. International Law
- 523. International Organization
- 532. Comparative Politics
- 533. Political Ideology
- 580. Government and Politics of Asia
- 621. Independent Study
- 651-652. Thesis

Christmas Term – September to December

GOVERNMENT 501. Introduction to Political Science – Monday. A general introduction to the study of political science, its scope and methods. The course will be organized as follows: 1. The history and development of western political theory and its influence on the growth of constitutional government; 2. The impact of the French and industrial revolutions on political theory and a brief introduction to some contemporary political ideas; 3. The major types of

governmental organization: an introduction to comparative government and the application of concepts and techniques of political analysis to modern political systems; 4. Analysis of contemporary tensions and conflicts on the international scene. Completion of this course with a satisfactory grade is a prerequisite for admission to candidacy for the degree of Master of Arts in government. See regulations above.

Seabury 17 – Mr. Neaverson.

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GOVERNMENT 514(1). American Constitutional Law – *Monday*. A study of the American constitutional system, the distribution of powers, and the imposition of limitations. Special attention is given to leading Supreme Court cases.

Seabury 19 – Mr. McKee.

GOVERNMENT 515. American Foreign Policy – *Wednesday*. A study of principles and factors involved in the formation of United States foreign policy, their application to recent selected foreign policy objectives, and an analysis of results.

Seabury 17 – Mr. Cobbledick.

GOVERNMENT 621. Independent Study – Individual research on a selected topic under the guidance of a department member. Permission granted to specially qualified candidates only. Not a substitute for the thesis course. May be taken once only.

Mr. Stedman and Staff.

GOVERNMENT 651–652. Thesis – Conference hours by appointment. Six semester hours. Investigation and report of an original research project. See *Degree Requirements*.

Mr. Stedman and Staff.

Trinity Term – January to May

GOVERNMENT 502. American National Government – *Wednesday*. A review and analysis of American political institutions, with emphasis on recurrent problems and major trends.

Seabury 46 – Mr. Stedman.

GOVERNMENT 533(2). Political Ideology – *Tuesday*. An examination of the varieties of socialist, liberal, conservative, and fascist political thought in Europe and North America and an evaluation of their relevance to social and political action. Prerequisite: Government 501.

Seabury 17 – Mr. Neaverson.

and foreign policies of China, Japan, India, Pakistan, and Indonesia. Special attention will be paid to current problems as they develop, and to topics of particular interest to the members of the class.

Seabury 46 – Mr. Choi.

GOVERNMENT 621 (2). Independent Study – Individual research on a selected topic under the guidance of a department member. Permission granted to specially qualified candidates only. Not a substitute for the thesis course. May be taken once only.

Mr. Stedman and Staff.

GOVERNMENT 580. Government and Politics of Asia – *Monday*. An examination of the political institutions and problems of the principal countries of Asia, with particular emphasis on contemporary domestic

GOVERNMENT 651–652. Thesis – Conference hours by appointment. Six semester hours. Investigation and report of an original research project. See *Degree Requirements*.

Mr. Stedman and Staff.

HISTORY

Chairman: PROFESSOR GEORGE B. COOPER

Graduate Adviser: PROFESSOR NORTON DOWNS

The Master's degree with a major in history is designed to follow an undergraduate concentration in history. Undergraduate preparation may include survey courses in ancient, European and American history. Candidates must complete at the graduate level a minimum of ten half-year courses, at least eight of which must be in history, including History 651-652: *Thesis*. Students with extensive preparation in history may be permitted by their adviser to elect two half-year courses in another department. The thesis is the final project of all candidates. A reading knowledge of one foreign language is required.

Summer Program in History

Courses in history are available both during the Summer Term and the regular academic year. Candidates may complete their course requirements (exclusive of the Thesis) toward the Master's degree in a minimum of two summers. A selection of history courses representing the following periods and areas will be available each summer: ancient history, Medieval history, European history, and American history.

Courses in the History Program

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|--|--|
| 505. Greece, 594 to 338 B.C. | 538. Italy |
| 506. Greece, 338 to 200 B.C. | 541, 542. Russia |
| 507. The Roman Republic | 550. New England |
| 508. The Roman Empire | 552. United States: The Formative Years |
| 511. The Middle Ages | 553. Civil War and Reconstruction |
| 512. The Byzantine Empire and Islam | 561, 562. United States as a World Power |
| 515. Renaissance and Reformation | 563. United States: Reconstruction to 1910 |
| 517. Europe 1760-1870 | 564. America in the Twentieth Century |
| 518. Expansion of Europe | 571. Latin America |
| 521, 522. European Diplomatic History | 577. Modern Canada |
| 525, 526. England | 580. Far East |
| 527. Twentieth Century Britain | 590, 591. Africa |
| 531, 532. France | 601, 602. Seminars: Various topics |
| 535, 536. Germany | 651 - 652. Thesis |
| 537. Studies in 19th and 20th Century
European Intellectual History | |

Christmas Term - September to December

HISTORY 506. Greece 338-200 B.C. -
Monday. A history of Greece and the Near

East from the conquest of Greece by Macedonia with especial study of the source ma-

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terial on Alexander the Great and on the Hellenization of the East.

Seabury 34 – Mr. Davis.

***HISTORY 550 (1).** History of New England – *Thursday*. The concept of regionalism; political, intellectual, and social development during the colonial and national periods; industrialization, immigration; cultural conflicts and adjustments.

Seabury 4 – Mr. Weaver.

HISTORY 562(1). United States Diplomatic History in the Twentieth Century – *Wednesday*. The growth of the United States as a world power, the Great War, interna-

tional relations between the wars, the Second World War, American policies since 1945.

Seabury 4 – Mr. Compton.

HISTORY 601. The Thirteenth Century – *Tuesday*. Intensive readings, reports, and papers on various topics in the institutional and cultural history of the thirteenth century in Europe.

Library, Seminar I – Mr. Downs.

HISTORY 651–652. Thesis – Six semester hours. Investigation and essay on an original research topic. Registration for this course must be accompanied by written permission from the Chairman of the Department.

Mr. Cooper and Staff.

Trinity Term – January to May

HISTORY 515(2). Europe in the Period of Renaissance and Reformation – *Monday*. The religious, political, economic, and cultural development of Europe from the fourteenth century to the seventeenth century. Topics for study will include: the Renaissance and Reformation as periods of history, the relationship of the Renaissance and Reformation, Renaissance humanism, politics and diplomacy, the Church on the eve of the Reformation, the religious movements in England and Europe, the Catholic Reformation, and European politics in the seventeenth century.

Seabury 4 – Mr. Painter.

HISTORY 553(2). The Civil War and Reconstruction – *Wednesday*. A combined lecture-discussion course based on non-military topics: slavery and the shape of southern society; the abolitionists, the breakdown of the American party system, interpretations of the causes of the Civil War, the politics

of the Union and the Confederacy, the Negro and Reconstruction.

Seabury 4 – Mr. Spencer.

HISTORY 602. The Thirteenth Century – *Tuesday*. Intensive readings, reports, and papers on various topics in the institutional and cultural history of the thirteenth century in Europe.

Library Seminar II – Mr. Downs.

HISTORY 602A. Seminar: American Historiography – *Thursday*. Special topics in the literature of American history, method and techniques of research.

Library Seminar Room 1 – Mr. Weaver.

HISTORY 651–652. Thesis. Six semester hours. Investigation and report of an original research topic. Registration for this course must be accompanied by written permission of the Chairman of the Department.

Mr. Cooper and Staff.

ITALIAN

The courses in Italian literature in translation are designed particularly for students of history and of English literature. They are made available as a part of the activity of the Cesare Barbieri Center of Italian Studies.

Italian Courses Available in Other Years or in Summer Term

551. Italian Renaissance Literature

560. The Contemporary Italian Novel

553 and 554. Dante – *The Divine Comedy*

LATIN LITERATURE AND CLASSICAL CIVILIZATION

Chairman: Professor ALBERT MERRIMAN

Graduate Adviser: Professor JOHN C. WILLIAMS

The program leading to the Master of Arts degree in Latin literature and Classical Civilization is especially designed for secondary school teachers of Latin. However, any person who is qualified and interested in doing advanced study in Latin and Classical Civilization would find the program appropriate.

To be eligible as a candidate in this program an applicant must meet the general requirements for acceptance as a candidate for the Master's degree and show evidence of possessing sufficient competency in Latin to undertake study of the subject at the graduate level.

A candidate for the Master of Arts degree must complete a total of ten half-year courses (30 semester hours). A minimum of five half-year courses involving analytical and interpretive reading of Latin authors in the original must be included in a candidate's program of study. These courses are to be selected from the curriculum unit entitled *Studies in Latin Literature*.

In addition, all degree candidates are required to complete successfully Latin 601-602: *History of Latin Literature*. This six semester hour course should be taken at the end of a student's program of study.

The balance of a candidate's program, three half-year courses, may include additional study in Latin literature, Greek, Greek and Roman history, classical civilization, or linguistics.

Each candidate is required to pass a Comprehensive Examination. Under special circumstances and with permission of the Department Chairman, particularly well-qualified students will be permitted to substitute a thesis for the Comprehensive Examination. All candidates, however, must pass the sight translation section of the examination.

The Comprehensive Examination will be administered once each year in mid-August. Candidates planning to take the examination must notify the Office of Graduate Studies in writing two weeks prior to the date of the test. Each student should include in his letter the two special authors he has selected for the second portion of the examination.

It is recommended that candidates plan not to enroll in courses during the session of the Summer Term in which the Comprehensive Examination is to be taken. They will, however, be permitted to take one half-year course at this time – with permission of the Department Chairman.

The courses in Latin and Classical Civilization are offered in the Summer Term only. However, candidates may take courses in Greek and Roman history and linguistics in the Christmas or Trinity Terms whenever they are available. In subsequent summers the courses available each year will probably include the following areas:

1. Advanced Placement Latin V taught by a college instructor and a secondary school teacher. Open for observation by Latin teachers.
2. Greek
3. Courses in history and classical civilization
4. A wide selection of courses in Latin literature

Courses in the Classics Program

Studies in Latin Literature

- | | |
|--|----------------------------|
| 501. Plautus and Terence | 509. Lucretius |
| 502. Catullus and Horace | 510. The Roman Love Elegy |
| 503. Cicero | 511. Roman Satire |
| 504. Livy | 512. Ovid |
| 505. Vergil: the <i>Aeneid</i> , Books I–VI | 513. Tacitus |
| 506. Vergil: the <i>Aeneid</i> , Books VII–XII | 514. Medieval Latin |
| 507. Vergil: <i>Eclogues</i> and <i>Georgics</i> | 521, 522. Special Readings |
| 508. Caesar and Sallust | |

Required Seminar

- 601–602. History of Latin Literature

Greek

- | | |
|---------------------------|-----------------------------|
| 101–102. Elementary Greek | 202. Homer |
| 201. Greek Prose | 301, 302. Advanced Readings |

Classical Civilization

- | | |
|------------------------|---------------------|
| 501. Greek Archaeology | 503. Special Topics |
| 502. Roman Archaeology | |

MATHEMATICS

Chairman and Graduate Adviser:

PROFESSOR WALTER J. KLIMCZAK

The Department of Mathematics offers a graduate program in mathematics which leads to the degree of Master of Science. It is designed for those who wish to supplement their training in mathematics and broaden their mathematical background.

The degree of Master of Science in mathematics is conferred upon students who have received a bachelor's degree with an undergraduate concentration in mathematics and have successfully completed ten graduate half-year courses in mathematics, or eight in mathematics and two in physics. The mathematics courses shall include either Mathematics 501 and 502 (*Introduction to Analysis I, II*) or Mathematics 503 and 504 (*Theory of Functions of a Real Variable I, II*), and three half-year courses from the following six half-year courses: Mathematics 507, 508 (*Theory of Functions of a Complex Variable, I, II*), Mathematics 517 (*Topology*), Mathematics 518 (*Introduction to Algebraic Topology*), Mathematics 519 (*Modern Algebra*), Mathematics 520 (*Linear Algebra*).

Students who have not taken a course in advanced calculus will normally be required to take Mathematics 500, which is recommended for students in mathematics.

Candidates should note that they will not receive credit toward the Master of Science degree in mathematics for Mathematics 500 or 500A or 500B. A thesis is not required.

Before electing either Mathematics 501 or Mathematics 503, students must request the permission of the Graduate Adviser, preferably at the Graduate Advisers' Pre-registration Session on the evening of September 11.

Courses in the Mathematics Program

- | | |
|--|---|
| 500. Advanced Calculus | 514. Mathematical Logic |
| 500A. Advanced Calculus I | 517. Topology |
| 500B. Advanced Calculus II | 518. Introduction to Algebraic Topology |
| 501, 502. Introduction to Analysis | 519. Modern Algebra |
| 503, 504. Theory of Functions of a
Real Variable | 520. Linear Algebra |
| 505. Theory of Probability | 521. Vector Analysis |
| 506. Mathematical Statistics | 522. Vector and Tensor Analysis |
| 507, 508. Theory of Functions of a
Complex Variable | 523. Foundations of Mathematics |
| 510. Introduction to Numerical Analysis | 525, 526. Topics from Analysis |
| 511, 512. Advanced Numerical Analysis | 601. Introduction to Functional Analysis |
| | 603. Functional Analysis and Applied
Mathematics |

Christmas Term – September to December

MATHEMATICS 500 (1). Advanced Calculus – *Tuesday and Thursday, 7:00–8:15.* The purpose of this course is to provide a sound background necessary for graduate study in mathematics. (Compare with Mathematics 500A.) The emphasis is on the understanding of the basic concepts of the calculus. Among the topics considered are the basis of the real number system, limits, continuity, differentiation, integration, and infinite series. Prerequisite: differential and integral calculus, or permission of the instructor. This course may be taken for graduate credit but will not be credited toward the requirements for the Master's degree with a major in mathematics.

McCook 309 – Mr. Seitelman.

MATHEMATICS 500A(1). Advanced Calculus I – *Tuesday and Thursday, 7:00–8:15.* This course is designed primarily for students in the physical sciences. Its purpose is to present topics of mathematics which are of common importance in various fields of applications. Among those included are infinite series, power series, solutions of differential equations, introduction to Laplace transform. Fourier series and dynamic programming. Prerequisite: differential and integral calculus or permission of the instructor. This course may be taken for graduate credit but will not be credited toward the requirements for the Master's degree with a major in mathematics.

McCook 307 – Mr. Bennett.

***MATHEMATICS 501.** Introduction to Analysis I – *Monday and Wednesday, 7:00–8:15.* An introductory course in the fundamental concepts of abstract analysis. Elements of logic and set theory, the real and complex number systems, fields, limits of complex sequences, infinite series and products. Prerequisite: Permission of Graduate Adviser.

McCook 305 – Mr. Poliferno.

***MATHEMATICS 503.** Theory of Functions of a Real Variable I – *Monday and Wednesday, 7:00–8:15.* Real numbers, sequences and series of functions, Fourier series, the Weierstrass polynomial approximation theorem, the Riemann-Stieltjes integral, topological properties of Euclidean spaces, the Lebesgue integral, convergence theorems. Prerequisite: Permission of Graduate Adviser.

McCook 307 – Mr. Mozzochi.

***MATHEMATICS 505.** Theory of Probability – *Monday and Wednesday, 7:00–8:15.* Axiomatic definition of discrete probability, combinatorial analysis, conditional probability, the binomial and Poisson distributions, random variables, the normal distribution, selected topics. Prerequisite: Mathematics 500 or its equivalent.

McCook 311 – Mr. Anderson.

MATHEMATICS 507. Theory of Functions of a Complex Variable I – *Monday and Wednesday, 7:00–8:15.* A rigorous treatment of the theory of functions of a single complex variable. The algebra of complex numbers, analytic functions, complex integration, Cauchy integral theorem and formulas, power series. Prerequisite: Mathematics 502 or its equivalent.

McCook 309 – Mr. Boyer.

***MATHEMATICS 519.** Modern Algebra – *Tuesday and Thursday, 7:00–8:15.* Topics selected from the following: Groups: subgroups and normal subgroups, factor groups, the homomorphism theorems, permutation groups and Cayley's theorem, Jordan-Hölder theorem and chain conditions, Sylow theorems. Rings: integral domains, principal ideal rings, division rings, prime factorization. Fields: finite fields, polynomial rings, algebraic extensions, splitting fields. Prerequisite: Mathematics 500 or its equivalent.

McCook 305 – Mr. Mattson.

Trinity Term – January to May

MATHEMATICS 500B. Advanced Calculus II – *Tuesday and Thursday, 7:00–8:15.* This course is a continuation of Mathematics 500A, but can be taken independently of Mathematics 500A. Among the topics considered are vector analysis, higher dimensional calculus, solutions of partial differential equations, introduction to analytic functions of a complex variable, Cauchy integral theorem and formulas. Prerequisite: differential and integral calculus or permission of the instructor. This course may be taken for graduate credit but will not be credited toward the requirements for the Master's degree with a major in mathematics.

McCook 307 – Mr. Bennett.

***MATHEMATICS 502.** Introduction to Analysis II – *Monday and Wednesday, 7:00–8:15.* Further topics in abstract analysis. The topology of metric spaces, introduction to analytic functions. Prerequisite: Mathematics 501.

McCook 305 – Mr. Poliferno.

***MATHEMATICS 504.** Theory of Functions of a Real Variable II – *Monday and Wednesday, 7:00–8:15.* Measure and integration in abstract spaces, LP spaces, the Riesz-Fischer theorem, the Radon-Nikodym theorem, the Hahn decomposition theorem, the Riesz representation theorem, Fubini's theorem, absolute continuity and its relation to the theory of differentiation. Prerequisite: Mathematics 503.

McCook 307 – Mr. Mozzochi.

***MATHEMATICS 506.** Mathematical Statistics – *Monday and Wednesday, 7:00–8:15.* Sampling from probability distributions, the central limit theorem, sampling from the normal distribution, the Chi-square, F and t distributions with applications, analysis of variance, regression analysis, goodness of fit

theory, hypothesis testing, confidence methods. Prerequisite: Mathematics 505.

McCook 311 – Mr. Anderson.

MATHEMATICS 508. Theory of Functions of a Complex Variable II – *Monday and Wednesday, 7:00–8:15.* The expansion of analytic functions in series, poles, essential singularities, contour integration, the calculus of residues, analytic continuation, conformal mapping, entire functions. Prerequisite: Mathematics 507.

McCook 309 – Mr. Boyer.

***MATHEMATICS 510.** Introduction to Numerical Analysis – *Tuesday and Thursday, 7:00–8:15.* An introduction to the methods of numerical analysis. Among the topics discussed will be round-off error, interpolation, solution of systems of nonlinear equations, numerical integration, matrix inversion, and the numerical solution of ordinary differential equations. The theoretical basis of these methods will be stressed. It is assumed that the student is familiar with matrix methods. Prerequisite: Mathematics 500 or its equivalent.

McCook 309 – Mr. Seitelman.

***MATHEMATICS 518.** Introduction to Algebraic Topology – *Tuesday and Thursday, 7:00–8:15.* Simplicial and singular complexes, their homology and cohomology groups. Homotopy groups. Prerequisite: Mathematics 517 or permission of the instructor.

McCook 311 – Mr. Whittlesey.

MATHEMATICS 520. Introduction to Linear Algebra – *Tuesday and Thursday, 7:00–8:15.* Vector spaces, finite- and infinite-dimensional. Linear transformations and their matrix representations. Prerequisite: Mathematics 500 or its equivalent.

McCook 305 – Mr. Mattson.

MODERN LANGUAGES

Chairman and Graduate Adviser:

PROFESSOR GUSTAVE W. ANDRIAN

The program leading to the Master of Arts degree in French or in Spanish is designed to provide the candidate with a good knowledge of French or Spanish literature and literary analysis, and an understanding of the culture and civilization of the nation concerned. Although designed especially for secondary school teachers or prospective teachers of French or Spanish, the program is appropriate for any person who is qualified and interested in doing advanced study.

To be eligible as a candidate for the Master of Arts degree in either French or Spanish, an applicant must meet the general requirements for acceptance as a candidate for the Master's degree and show evidence of possessing sufficient competence in French or in Spanish (usually the equivalent of a college major) to undertake study of the subject at the graduate level. All courses, with but few exceptions, are conducted in the language.

Programs of study in French and Spanish are planned on an individual basis but candidates are normally required to take a total of ten half-year courses (30 semester hours) and pass a Comprehensive Examination. Of the total of ten half-year courses, one must be in civilization and culture and one in applied linguistics. A literature course may be substituted for linguistics when similar work has previously been taken. Students may elect, with permission of the Department Chairman, to substitute a thesis in lieu of two half-year courses in literature and the Comprehensive Examination.

Comprehensive Examinations in French and Spanish literature are held about the first of October and of May. Each examination consists of a written section, approximately eight hours in length, and of a shorter oral test. Students planning to take the examination should notify the Associate Dean of the College and the adviser in writing no later than one month prior to the test date.

Although the program is designed primarily for summer study, the Department offers at least one course in French and one course in Spanish for graduate credit in each semester of the regular academic year. It is, therefore, possible to complete the requirements for the Master's degree in a minimum of one academic year and two summers.

Courses in the Modern Languages Program

French

- 501. Linguistics
- * 502. Advanced Conversation and Syntax
- 503, 504. Civilization and Culture
- 505. Masterpieces of French Literature
- 507, 508. Studies in French Classicism
- 509, 510. Studies in the Eighteenth Century
- 511. Studies in Romanticism
- 512. Studies in Realism and Naturalism
- 513, 514. Studies in Lyric Poetry

- 515, 516. Studies in Drama
- 517, 518. Studies in Fiction
- 519. Proust and Gide
- 520. Existentialism
- 521. Renaissance Prose
- 522. Renaissance Poetry
- 523. Literary Criticism
- 525. Study in Stylistics

Spanish

- 501. Linguistics
- * 502. Advanced Conversation and Syntax
- 503, 504. Civilization and Culture
- 505. Masterpieces of Spanish Literature
- 506. Cervantes
- 507, 508. Studies in the *Siglo de Oro*
- 509, 510. Studies in the Nineteenth Century
- 511. The Generation of '98
- 513, 514. Studies in the Twentieth Century

- 515, 516. Studies in Spanish American Literature
- 517. Masterpieces of Spanish American Literature
- 518. The Spanish American Novel
- 519. Medieval Spanish Literature
- 521. Studies in Sixteenth Century Humanism

* This course does not carry graduate credit.

Christmas Term – September to December

FRENCH 515. Studies in Nineteenth Century Drama – Wednesday. Discussion will include such precursors of the eighteenth century as Diderot and Sedaine. From the nineteenth century the following will be studied: Hugo, Dumas père, Vigny, Musset, and Rostand.

McCook 213 – Mr. Waterman.

SPANISH 521. Studies in Spanish Humanism of the Sixteenth Century – Wednesday.

Readings and discussion of the drama, prose, and poetry of sixteenth century Spain. Special attention will be given to humanistic trends and their role in the development, transformation and creation of new literary genres. Focus on representative selections of the poetry of Garcilaso, and pre-Lope theater, the picaresque novel, and the mystics.

McCook 303 – Mr. DiCamillo.

Trinity Term – January to May

FRENCH 518. Twentieth Century Novel from Gide to Camus – *Wednesday*. In addition to these two novelists, others to be studied will include Proust, Malraux, and Mauriac.

McCook 303 – Mr. Leavitt.

SPANISH 508. Drama of the *Siglo de Oro* – *Thursday*. A study of the dramatic produc-

tion principally of Lope de Vaga, Tirso de Molina, Calderón de la Barca, Guillen de Castro, and Juan Ruiz de Alarcón, with a consideration of the history of the Spanish theater up to and including the period of the 17th century drama.

McCook 303 – Mr. Kerson.

PHILOSOPHY

Chairman: PROFESSOR BLANCHARD W. MEANS

Graduate Adviser: PROFESSOR HOWARD DELONG

Trinity's degree program in philosophy is planned, not necessarily as preparation for professional work in philosophy, but primarily to provide an opportunity for mature students to investigate the fundamental thinking of mankind. Previous undergraduate study of philosophy is not required. To qualify for the Master's degree the student must complete ten half-year courses, eight of which must be in philosophy, including Philosophy 651-652: *Thesis*. No specific course or sequence of courses is required, but candidates are encouraged to seek the counsel of the Department Chairman or Graduate Adviser in planning their program of study. Registration in courses from other departments which are to be applied toward the degree requirements in philosophy must be approved in advance by the Department.

Courses in the Philosophy Program

- 501. Philosophy of Science
- 502. Advanced Logic
- 503. Philosophy of Religion
- 504. Philosophy of State
- 505. Philosophy of History
- 506. Philosophy of Art
- 507. History of Philosophy I
- 508. History of Philosophy II

- 509. Special Studies in Philosophy
- 510. Special Studies in Philosophy
- 511. Seminar – Various Topics
- 512. Seminar – Various Topics
- 651-2 Thesis

Christmas Term – September to December

PHILOSOPHY 507. History of Philosophy I – *Thursday*. History of ancient and early medieval philosophy, concentrating on Plato, Aristotle, Epicureanism, Stoicism, Neoplatonism, Augustine, and Aquinas.

McCook 213 – Mr. Hyland.

PHILOSOPHY 509. Special Studies in Philosophy: Philosophy of Mind – *Monday*. An intensive study of several philosophical problems of mind such as the relation of mind and body, the nature of the self and consciousness, and the existence of innate ideas. Both analytic philosophy and phenomenology will be considered as approaches to clarifying the issues involved; and the contributions to a solution of these problems by recent findings in linguistics, physiology,

psychology and anthropology will be considered. Prerequisite: Permission of the instructor.

McCook 213 – Mr. Brown.

PHILOSOPHY 511. Seminar: Plato – *Wednesday*. An intensive study of the Platonic dialogues. Special attention will be given to the historical context in which they arose.

Library, Seminar II – Mr. Hyland.

PHILOSOPHY 651–652. Thesis – Conference hours by appointment. Intensive inquiry into a special area of philosophy under the direction of a member of the Department. See *Degree Requirements*.

Mr. Means and Staff.

Trinity Term – January to May

PHILOSOPHY 508. History of Philosophy II – *Monday*. History of later medieval and modern philosophy through the eighteenth century, concentrating on Descartes, Spinoza, Leibnitz, Hobbes, Locke, Berkeley, Hume, and Kant.

McCook 303 – Mr. Brown.

PHILOSOPHY 510. Special Studies in Philosophy: Philosophy of Mathematics – *Thursday*. After considering the nature of the axiomatic method, set theory, and some

fundamental results of mathematical logic, the course concentrates on a study of logicism, intuitionism, and formalism.

Seabury 4 – Mr. DeLong.

PHILOSOPHY 651–652. Thesis – Conference hours by appointment. Intensive inquiry into a special area of philosophy under the direction of a member of the Department. See *Degree Requirements*.

Mr. Means and Staff.

PHYSICS

Chairman and Graduate Adviser:

PROFESSOR F. WOODBRIDGE CONSTANT

The program in physics leading to the Master of Science degree is designed for engineers, mathematicians, physicists in industry, and others who desire further

training in mathematical physics and knowledge of recent developments in the atomic and sub-atomic fields.

The physics courses are planned to follow an undergraduate concentration in physics and mathematics. Although no one program of study is specifically required, degree candidates or students planning to become degree candidates are required to begin their course work with Physics 501: *Classical Mechanics*, unless they are excused by the qualifying examination. Ten half-year courses are required for the Master's degree; of these, four half-year courses may, with the approval of the student's adviser, be taken in mathematics. Recommended courses in mathematics include Mathematics 500A, if the student has not had such a course, real and complex variables, modern algebra and matrix theory, vector and tensor analysis. A thesis is not required. Students who apply for candidacy for the Master's degree in physics, except those offering an undergraduate major in physics with a minimum grade average of "B-," will be reviewed by the Graduate Committee only after they have completed one half-year course in physics at Trinity beyond Physics 500.

All students desiring to enroll in Physics 501 will be required to pass successfully a qualifying examination. This test will be administered on Tuesday evening, September 10, 1968, at 7:00 P.M. in Room 102, McCook Center. The examination will include general principles of physics and their mathematical formulation. Suggested references for review are: Sears and Zemansky, *University Physics*, and F. W. Constant, *Theoretical Physics*. Students who do not pass the qualifying examination will be required to complete Physics 500 and Mathematics 500A and/or 500B before taking Physics 501. Those who receive a grade of Distinction in this test will be exempted from taking Physics 501, 502. Students who are uncertain as to whether they have qualitatively satisfied the prerequisites of a course should discuss their academic preparation with members of the Physics Department, preferably at the Graduate Advisers' Session.

Courses in the Physics Program

500. Fundamental Principles of Physics
501, 502. Classical Mechanics
503, 504. Electricity and Magnetism
505. Mathematical Physics
507. Electromagnetic Theory of Light

508. Statistical Mechanics
511, 512. Modern Physics
513, 514. Quantum Mechanics
519, 520. Solid State Physics
601, 602. Research

Christmas Term – September to December

PHYSICS 501. Classical Mechanics – *Tuesday and Thursday, 7:00–8:15.* The concepts of mass, force and energy, Lagrange's

equations, and the central force problem. Emphasis is placed on the fundamental hypotheses of the physical theory and their

expression in various mathematical forms. Prerequisite: at least two courses in physics and two in mathematics, including a course in mechanics. All students desiring to enroll in Physics 501 will be required to pass successfully a qualifying examination. This test will be administered on Tuesday evening September 10, 1968, at 7:00 P.M. in Room 102, McCook Center. The examination will include general principles of physics and their mathematical formulation. Suggested references for review are: Sears and Zeman-sky, *University Physics*, and F. W. Constant, *Theoretical Physics*. Students who do not pass the qualifying examination will be required to complete Physics 500 and Mathematics 500A and/or 500B before taking Physics 501. Those who receive a grade of Distinction in this test will be exempted from taking Physics 501, 502.

McCook 102 – Mr. Lamb.

*PHYSICS 511. *Modern Physics – Tuesday and Thursday, 7:00–8:15.* A survey of the major developments in physics since 1900, including theory of relativity, origin of quantum theory, wave mechanics, and spectroscopy. Prerequisite: Physics 501, 502 or permission of the Graduate Adviser.

McCook 106 – Mr. Sziklas.

*PHYSICS 519. *Solid State Physics I – Tuesday and Thursday, 5:00–6:15.* A general introductory course in the properties of solids. Topics include crystal structure, types of bonding, mechanical properties, thermal properties, dielectrics, free electron and band theories, and semiconductors. Prerequisites: Physics 501, 502 or an equivalent course in theoretical physics and at least one semester of atomic physics.

McCook 106 – Mr. Witt.

Trinity Term – January to May

PHYSICS 500. *Fundamental Principles of Physics – Monday and Wednesday, 7:00–8:15.* No credit. The course is designed to help prepare those who wish to take graduate courses in physics but who have not completed an undergraduate major in physics. The mathematical formulation of the fundamental principles of physics will be reviewed with special emphasis on mechanics and electro-magnetism. Familiarity with the calculus, differential equations and vector notation will be developed through the analysis and solution of theoretical problems.

McCook 102 – Mr. Constant.

*PHYSICS 502. *Classical Mechanics – Tuesday and Thursday, 7:00–8:15.* A continuation of Physics 501. Dynamics of rigid bodies, special relativity, Hamilton's equations, and small oscillations. Prerequisite: Physics 501.

McCook 106 – Mr. Lamb.

*PHYSICS 512. *Modern Physics – Tuesday and Thursday, 7:00–8:15.* A continuation of Physics 511 including x-rays, nuclear physics, and fundamental particles. Prerequisite: Physics 511.

McCook 102 – Mr. Sziklas.

*PHYSICS 520. *Solid State Physics II – Tuesday and Thursday, 5:00–6:15.* A continuation of Physics 519 with emphasis on the following topics: magnetic properties including resonance and masers; the Fermi surface in metals and methods for gauging it; superconductivity including the thermodynamics of superconductors; the London equations and introduction to the Bardeen-Cooper-Schrieffer theory. Prerequisites: Physics 519 or an equivalent introductory course in solid state physics.

McCook 106 – Mr. Witt.

Masters Degrees

Conferred at the Commencement

June 2, 1968

Maria de los A. Perez Acosta	B.A., 1948, La Progresiva College, M.A., Ed.D., 1953, University of Havana	M.A.
Osbaldo Sixto Acosta	B.A., 1944, Teacher College of Havana M.A., 1948, Teacher College of Sta. Clara, Ed.D., 1953, University of Havana	M.A.
Evelyn Schultz Ahlberg	B.A., 1957, Mount Holyoke College, M.S., 1962, Trinity College	M.S.
Philip Leon Balicki	B.S., 1966, Central Connecticut State College	M.S.
George Bassos	B.A., 1965, Amherst College	M.A.
Joan Elizabeth Beck	B.A., 1963, Amherst College	M.A.
William Ernest Berry	B.S., 1965, Springfield College	M.A.
Kaye Shugart Bourquin	B.A., 1964, Salem College	M.A.
Ann Gilda Brauer	B.A., 1965, Connecticut College for Women	M.A.
Richard Symeon Bruchal	B.A., 1959, Yale University, LL.B., 1962, Cornell University	M.A.
Ruth Eileen Buckley	B.A., 1949, Saint Joseph College	M.A.
David Alan Cain	B.S., 1966, Lowell Technological Institute	M.S.
Leon Edmund Callahan	B.A., 1958, Providence College	M.A.
Sally Anne Casper	B.A., 1961, Albertus Magnus College	M.A.
Jacqueline Marie Chadourne	B.C., 1937, Academie de Poitiers	M.A.
Carol Sue Chapman	B.A., 1963, University of New Hampshire	M.A.
Rexford Scott Clements	B.A., 1959, Dickinson College	M.A.
Robert John Collins	B.S., 1960, University of Vermont	M.A.
Don Jamison Costales	B.S., 1963, Iowa State University	M.S.
Howard James Coughlin, Jr.	B.A., 1949, University of Massachusetts	M.A.
Charles Linden Crowder		M.A.
Daniel John Cruson, III	B.A., 1967, Trinity College	M.A.
Barry Neil Curran	B.A., 1957, College of the Holy Cross, M.A., 1965, Fairfield University	M.A.
Robert Ensign Darling, Jr.	B.A., 1959, Yale University	M.A.
Richard Rand Desmond	B.A., 1965, Yale University	M.A.
Frank William Dibert	B.A., 1960, Saint Francis College	M.A.
Melvin Eugene Dickover	B.S., 1964, Purdue University	M.S.
William James Dickson	B.S., 1962, University of Hartford	M.A.
Ronald Herbert Dieck	B.S., 1964, Houghton College	M.S.
Edward Hathaway Dodge	B.A., 1956, Bates College, B.D., 1956, Bangor Theological Seminary	M.A.
Daniel Francis Dwyer	B.A., 1958, Providence College	M.A.
Tatiana Boris Evtushenko	B.A., 1957, University of Connecticut	M.A.
Alphonse Russell Fanelli	B.S., 1962, College of the Holy Cross	M.A.
Evelyn Mary Farrell	B.A., 1966, Manhattanville College	M.A.

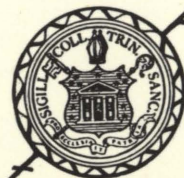
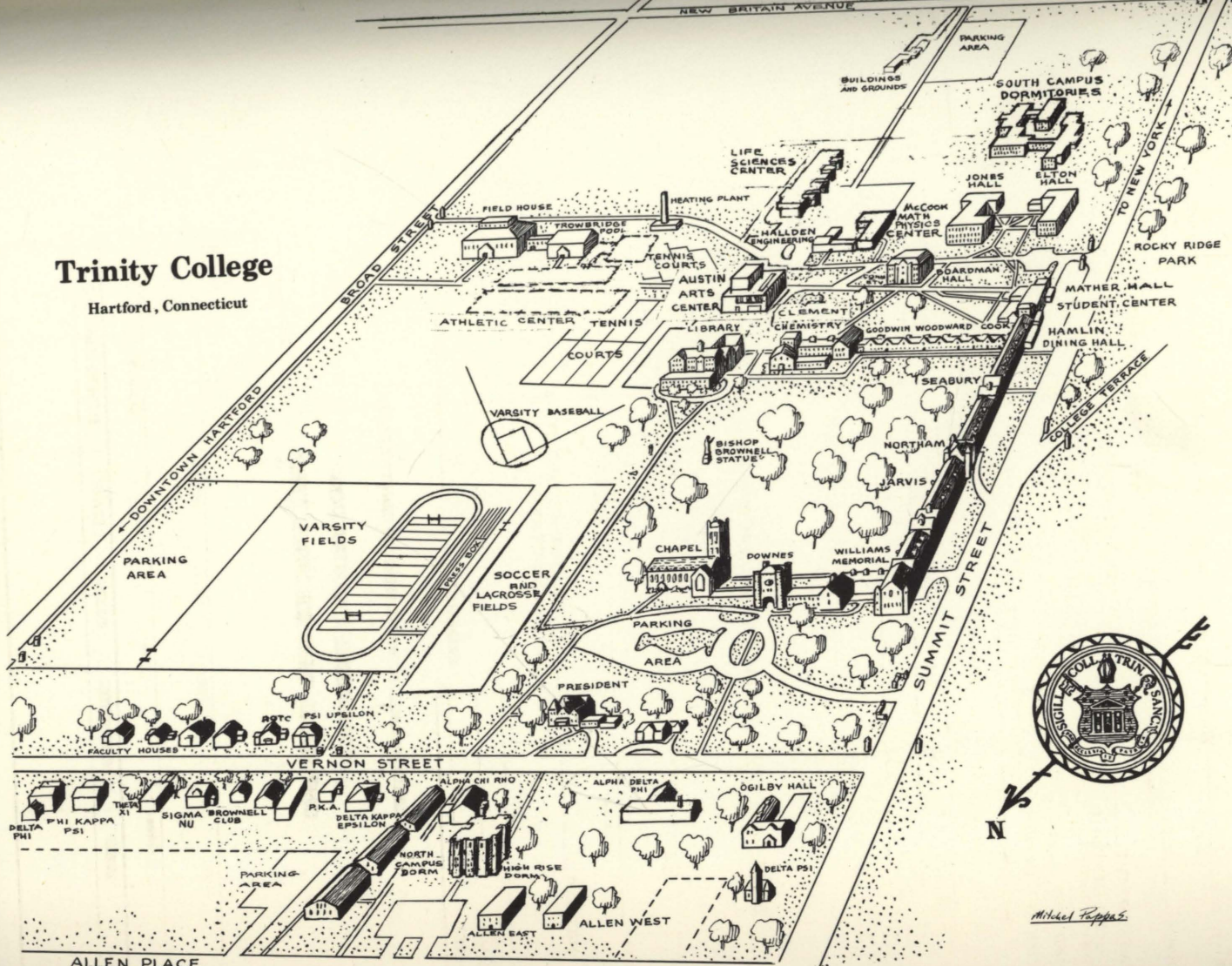
Salvatore Francis Gangi	B.A., 1959, University of Connecticut	M.S.
Lucien Albert Gehami	B.Sc., 1950, Ecole Centrale Des Arts Et Manufactures	M.S.
Tirzah Silberstein Gerstein	B.A., 1956, Vassar College	M.A.
Carol McPhee Goddu	B.A., 1965, Smith College	M.A.
Mordecai M. Golshevsky	Ordination, 1957, Boston Rabbinical Seminary	M.A.
Michael Wallace Gordon	B.S., 1957, LL.B., 1963, University of Connecticut	M.A.
Maureen Micaela Haviland	B.S., 1964, Jackson College	M.S.
Mary Mazurek Heslin	B.A., 1951, University of Connecticut	M.A.
Nancy Ann Hockensmith	B.A., 1964, Cornell University	M.A.
Kathleen O'Shea Hunter	B.A., 1957, Douglass College	M.A.
Harry Charles Jackson, Jr.	B.A., 1958, Trinity College	M.A.
Neil Jerome Johanson	B.A., 1962, Boston University	M.A.
Elizabeth Anne Johnson	B.A., 1961, Albertus Magnus College	M.A.
Paul Charles Katzen	B.S., 1964, Lowell Technological Institute	M.S.
Mimi Park Kaufmann	B.S., 1963, Central Connecticut State College	M.A.
Kathleen Anne Kerrigan	B.A., 1964, Saint Joseph College	M.A.
George Edward King	B.S., 1928, U.S. Naval Academy	M.A.
Boris Wolodar Krupa	B.A., 1966, University of Notre Dame	M.A.
John Eliot Larkin, Jr.	B.A., 1962, Harvard University	M.A.
Arthur Marshall Lawton, Jr.	B.A., 1962, Colby College	M.A.
Betty Jean Lewandowski	B.S., 1960, State University of New York	M.A.
James Francis Looby	B.A., 1933, Saint Bernard Seminary and College	M.A.
James Floyd Lovelace	M.A., 1962, Saint Joseph College	M.A.
John Charles Macko	B.A., 1961, Cornell University	M.S.
Marilyn Ann Magnoli	B.S.Ch.E., 1964, Worcester Polytechnic Institute	M.A.
	B.A., 1955, Jackson College, M.A.T., 1964, University of Hartford	M.A.
Norma Puzzo Marcellino	B.A., 1964, Albertus Magnus College	M.A.
Timothy Owen Martyn	B.A., 1965, Providence College	M.A.
Celeste Ann Masi	B.S., 1965, Central Connecticut State College	M.A.
Charles Ronald Mather, Jr.	B.A., 1964, Trinity College	M.A.
John James McLean	B.S.S., 1955, M.A., 1962, Fairfield University	M.A.
Chester Herman McPhee, Jr.	B.A., 1951, Oberlin College, M.A., 1957, Ohio State University	M.A.
David Henry Meade	B.Ed., 1949, City of Coventry College	M.A.
Leonard Evert Mellberg	B.S., 1961, University of Massachusetts	M.S.
Anthony Paul Mientek	B.S., 1963, Iona College	M.S.
Edward John Frank Milano	B.E.E., 1963, Rensselaer Polytechnic Institute	M.S.
Barbara Connell Mooney	B.A., 1944-45, Vassar College	M.A.
Henry Lawrence Morgan, Jr.	B.I.E., 1960, General Motors Institute	M.A.
Joseph William Neary, Sr.	B.A., 1961, Boston University	M.A.
Robert Stephen O'Brien	B.A., 1952, Trinity College	M.A.
Joseph Martin O'Neill	B.S.N.E., 1961, North Carolina State College	M.S.
Rosalie Therese Otto	B.A., 1939, University of Chicago, M.A.L.S., 1959, Wesleyan University	M.A.
James Mellon Park	B.A., 1964, Yale University	M.A.

44 / Masters Degrees

Marquela Irene Perez	B.A., 1955, Dakota Wesleyan University, M.Ed., 1965, Springfield College	M.A.
Eileen Grace Pleva	B.A., 1965, Connecticut College for Women	M.A.
Donald John Post, Jr.	B.A., 1954, Cornell University	M.A.
Robert Joseph Potvin	B.A., 1962, American International College	M.A.
John David Pritchard	B.S., 1956, University of Connecticut	M.A.
Thomas Fred Ragazzino	B.S.S., 1963, Fairfield University	M.A.
Cora Palazzolo Rodenhizer	B.A., 1951, Wilson College	M.A.
Albert Howard Rogers	Ph.B., 1930, Brown University	M.A.
William Kingsbury Rogers	B.A., 1957, Amherst College	M.A.
Beverly Cowles Rohr	B.A., 1952, State University of New York	M.A.
Michael John Rondon	B.A., 1965, University of Hartford	M.A.
Harriet Barbara Rosen	B.A., 1961, Jackson College	M.A.
Roger Arsenio Sanchez-Berroa	B.S.A., 1961, University of Florida	M.A.
James Henry Sarsfield	B.A., 1957, University of the Philippines, M.A., 1964, Middlebury College	M.A.
Hubert Elijah Saunders, II	B.A., 1962, The Citadel	M.A.
Richard Russell Scoville	B.A., 1959, Hobart College	M.A.
Judith Bridge Sears	B.A., 1964, Skidmore College	M.A.
Matthew Mark Sheridan	B.A., 1962, College of the Holy Cross, M.A., 1965, Boston University	M.A.
Florence Harriet Sherrow	B.A., 1962, Boston University	M.A.
Betty Grace Sinclair	B.A., 1953, Bates College, M.A.L.S., 1959, Wesleyan University	M.A.
Florence Evelyn Smith	B.S., 1954, Skidmore College	M.A.
Jordan Marshall Smith	B.A., 1957, LL.B., 1960, Washington and Lee University	M.A.
Peter Harmon Smith	B.S., 1965, Bucknell University	M.S.
Thomas Adolph Soininen	B.A., 1964, Union College	M.A.
Arthur Paul Solomon	B.A., 1961, Brown University	M.A.
Douglas Simpson Speicher	B.A., 1954, Pennsylvania State University	M.A.
William Richard Stanley	B.A., 1956, Princeton University	M.A.
William Gerard Stephenson, Jr.	B.S., 1963, Boston College	M.S.
Richard Ramsdell Stewart	B.A., 1953, Trinity College, LL.B., 1960, Boston University	M.A.
Mary Lehan Sullivan	B.A., 1953, Saint Joseph College	M.A.
Loretta Mary Teevan	B.A., 1955, Saint Joseph College	M.A.
Peter Stephen Toma	B.S., 1959, Central Connecticut State College	M.A.
Thomas Turner Tongue, II	B.A., 1953, Washington and Lee University	M.A.
Delmar Eugene Tunnell, Jr.	B.S., 1964, University of Missouri	M.S.
Anthony Francis Vignone	B.S., 1960, Trinity College	M.S.
Maurice William Villano	B.A., 1951, Trinity College	M.A.
Clarence Roy Vince	B.S., 1963, Central Connecticut State College	M.A.
Emojean Shulenberg Weaver	B.A., 1943, Catawba College	M.A.
Peter Hamlin Wells	B.A., 1962, Yale University	M.A.
Thomas Edward Whalen	B.A., 1965, Trinity College	M.A.
Carl George Wiediger	B.A., 1956, Hartwick College, B.D., 1959, Lutheran Theological Seminary	M.A.
John Richard Worth	B.A., 1967, Trinity College	M.A.

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