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Trinity College

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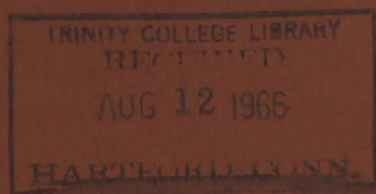
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Trinity College
HARTFORD CONNECTICUT

Trinity College Bulletin

Graduate Studies

1966-1967



Calendar

CHRISTMAS TERM - 1966

Sept. 13 and 14, Tuesday and Wednesday	Graduate Advisers' Pre-registration Sessions, 7:00 to 9:30 P.M., Washington Room, Mather Hall
Sept. 19, Monday	Christmas Term begins
Nov. 23, Wednesday	Thanksgiving vacation begins at 12:00 noon
Nov. 28, Monday	Classes resume
Dec. 17, Saturday	Christmas vacation begins at 11:30 A.M.

1967

Jan. 4, Wednesday	Classes resume
Jan. 21, Saturday*	Christmas Term classes end at 12:00 noon

TRINITY TERM - 1967

Jan. 30, Monday	Trinity Term begins
March 24, Friday	Spring vacation begins at 12:00 noon
April 1, Saturday	Final day for submittal of:
	1. Requests for comprehensive examination.
	2. Application to receive Master's degree
April 3, Monday	Classes resume
May 1, Monday	Final day for submittal of theses
May 20, Saturday*	Trinity Term classes end at 12:00 noon
June 4, Sunday	One Hundred and Forty-first Commencement

SUMMER TERM - 1967

June 26, 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.

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Catalogue No. 226

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Graduate Studies 1966-1967

Faculty and Administration

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GERALD R. MARSHALL, B.A.

CAROLE M. LAWSON, B.S.
MARION McLAUGHLIN

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

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RONALD J. LEE, PH.D.
RICHARD T. LEE, PH.D.
JAMES C. LOUGHLIN, PH.D.

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Instructor in Mathematics
Professor of Modern Languages
Associate Professor of Economics
Lecturer in Mathematics
Assistant Professor of English
Instructor in Mathematics
Instructor in Philosophy
Jarvis Professor of Physics
Northam Professor of History
Professor of History
Assistant Professor of Education
Assistant Professor of Philosophy
Seabury Professor of Mathematics
and Natural Philosophy
Professor of History
Associate Professor of Economics
Librarian
Associate Professor of English
Assistant Professor of Government
Lecturer in Modern Languages
Assistant Professor of Modern Languages
Professor of Mathematics
Associate Professor of Modern Languages
Assistant Professor of English
Assistant Professor of Philosophy
Assistant Professor of Economics

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RALPH M. WILLIAMS, PH.D.

GERALD L. WITT, PH.D.

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Assistant Professor of Mathematics

Lecturer in Physics

Assistant Professor of Government

Professor of English

Brownell Professor of Philosophy

Assistant Professor of Economics

Associate Professor of Education

Associate Professor of Government

Hobart Professor of Classical Languages

Assistant Professor of History

Lecturer in Mathematics

Associate Professor of Mathematics

Assistant Professor of English

Associate Professor of English

Professor of Economics

Lecturer in Mathematics

Assistant Professor of History

Scoville Professor of Chemistry

Associate Professor of English

Professor of Government

Assistant Professor of History

Lecturer in Physics

G. Fox and Company Professor of Economics

Associate Professor of Economics

Associate Professor of Modern Languages

Associate Professor of History

Professor of Mathematics

Professor of English

Research Associate in Physics

Graduate Studies at Trinity College

AMONG the many problems facing American education none is more important than the problem of graduate education. Contemporary culture, constantly increasing in complexity, needs a constantly increasing number of individuals whose education has extended beyond the Bachelor's degree. Unfortunately, the proportion of the population free to engage in graduate study to the exclusion of all other activity is likely to increase little if at all. Society's need for individuals with graduate education must be met in other ways.

A partial solution to this need is provision for further scholarly development of talented men and women who because of financial or family or professional obligations cannot expect ever to engage in full-time graduate study. There are many men and women who are willing to devote much of their leisure time to study and whose ability, previous education and experience, and strong professional or personal motivation insure that the quality of their academic performance will be excellent. For such persons Trinity College has since 1927 offered a program of evening graduate study.

Trinity recognizes that neither society nor the individual is served if an advanced degree earned in part-time study represents a smaller achievement in learning than the same degree earned in full-time study. The conditions under which graduate study can be satisfactorily pursued by persons who must be primarily engaged in other activities are not easily supplied. As a result of its considerable experience 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 scholars-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. Trinity's provision for each of these requisites will be explained in the pages which follow.

Trinity is a liberal arts college. It recognizes that the distinction between professional and non-professional courses at any level is arbitrary and artificial. A freshman course in chemistry is a professional course if the student becomes a chemist, and the Doctor of Philosophy degree is a professional degree for the teacher of history. At the same time the College is convinced that instruction which concentrates on the specific characteristics of a profession does not prepare the student for more than the immediate future or for problems as yet unanticipated. A liberal arts college maintains that personal and professional development will follow graduate study which provides a basic understanding of one or more of the fundamental fields of knowledge. Such understanding then enables the individual to find for himself solutions to problems which face him, now or in the future. This is the point of view of graduate study at Trinity College.

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 applicants 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 May 1 will be considered prior to June 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

Trinity will accept toward the Master's degree a maximum of six semester hours (two half-year courses) of graduate work completed at other accredited institutions, providing grades received in such courses meet the minimum standard for graduate study at Trinity (B- or higher), and such courses, in the judgment of the department concerned, are reasonably the equivalent of Trinity offerings.

Candidates desiring transfer credit should: 1) have the outside course approved in advance, if possible, by the Graduate Office; 2) submit to the Graduate Office a full course description; 3) arrange to have an official transcript of their record sent to the Graduate Office.

THE THESIS

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 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 \$50 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 prior to April 1 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 late September 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 April 1 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 on the thesis or comprehensive examination each graduate student will receive a grade from this scale:

Distinction – High Pass – Pass – Low Pass – Failure

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 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.

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 prior to the second week of classes, one-half prior to the third week, one-fourth prior to the seventh 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.

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.

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.

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 440,000 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 7,000 volumes per year and subscribes to over 1,000 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 1966-67 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

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 Thursday, 8:30 A.M. to 11:00 P.M.

Friday, 8:30 A.M. to 10:00 P.M.

Saturday, 8:30 A.M. to 5:00 P.M.

Sunday, 2:00 P.M. to 10:00 P.M.

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

Mather Hall

Bookstore – 6:30 P.M. to 7:30 P.M. Monday through Thursday the first week of each term only. Regular hours daily from 9:00 A.M. to 4:00 P.M. and Saturdays, 9:00 A.M. to noon.

Cave – Monday through Saturday, 7:30 A.M. to 11:00 P.M.

Sunday – 4:00 P.M. to 9:00 P.M.

Lounges – Daily, 7:00 A.M. to 11:00 P.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 5:00 P.M.

Sunday through Friday, 7:00 P.M. to 11:00 P.M.

REGISTRATION

Christmas Term

Registration by mail opens August 1.

Students may also register in person at the Graduate Office daily except Saturday 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 13 or September 14 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 8:30 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 January 1.

Students may also register in person at the Graduate Office daily except Saturday 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., 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 January

Trinity Term – February to June

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 LAWRENCE W. TOWLE

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 seeks to provide a comprehensive and well-grounded acquaintance with contemporary economic problems and

a basic familiarity with and command of the tools of modern economic analysis. For those students who may be planning to pursue further advanced study possibly leading to the doctorate, Trinity's program in economics offers a solid training in the basic disciplines of the science, notably in theory, statistics, and economic history.

Although Trinity offers no degree in business administration, persons in banking and finance, junior business executives, government employees, teachers of economics, and others in the business world will find the background and training that is offered in graduate study in economics professionally valuable.

It is desirable that students who contemplate studying for a Master's degree in economics have an undergraduate background in economics. In some cases, however, students who have compiled an outstanding undergraduate record but have taken little economics in their undergraduate program have with serious effort made a satisfactory record in their graduate economics program.

All persons who desire to major in economics, or who merely desire to register in Economics 501, must demonstrate a 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 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 | 561. Statistics for Economics |
| 512. National Income Analysis and Business Cycles | 572. Managerial Accounting |
| 521. Economic History of Western Europe | 575. Comparative Economic Systems |
| 522. Economic History of the United States | 581. Government and Industry |
| 531. Labor Economics | 585. Corporation Finance |
| 532. Union-Management Relations | 591-592. History of Economic Thought |
| 541. Public Finance | 651-652. Thesis |

Christmas Term – September to January

ECONOMICS 500. Economic Principles and Problems – Tuesday. 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 surpluses, 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.

McCook 213 – Mr. Michalopoulos.

ECONOMICS 501. Price Theory – Wednesday. A basic course in microanalysis. Intensive study of the price system and resource allocation including the theory of demand; production and cost analysis; the pricing policies of business firms under various market structures. Specific reference will be made to decision-making in selected industries in the United States. The purpose of the course, required of all students majoring in economics, is to provide rigorous training in fundamental analytical techniques. This requirement will be waived for students with strong preparation in economics who pass a qualifying examination.

All students wishing to enroll in Economics 501 must demonstrate a competence to undertake study in economics at the graduate level by passing a qualifying examination. Those who achieve 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 qualifying test will be administered Thursday evening, September 15,

at 7:30 p.m. in Room 301, Williams Memorial. Students who wish to be admitted to the test should notify the Office of Graduate Studies, in writing, no later than September 15 of their intention to take the test.

McCook 309 – Mr. Loughlin.

ECONOMICS 511. Money and Banking – Tuesday. The nature and functions of money; monetary standards; the role and operations of commercial banks; central banking and the Federal Reserve System; the Treasury and the money market; foreign exchange and international finance; monetary theory and policy. Prerequisite: Economics 501 or the equivalent.

Williams Memorial 301 – Mr. Towle.

ECONOMICS 531. Labor Economics – Monday. Study of the problems of wage earners in industrial societies with particular reference to the United States. Topics will include: labor force analysis; wage determination in theory and practice; types of unemployment; adjustments to automation; economic impact of the union; wages and hours legislation; and social security legislation. Prerequisite: Economics 501 or the equivalent.

Williams Memorial 301 – Mr. Scheuch.

ECONOMICS 591. History of Economic Thought – Wednesday. The history of economic doctrine from Aristotle to Karl Marx. Special emphasis will be placed upon the contributions to value and distribution theories by Adam Smith, David Ricardo, J. S. Mill, and Karl Marx. Prerequisite: Economics 501 or the 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. Towle and Staff.

Trinity Term – February to June

ECONOMICS 501(2). Price Theory – Tuesday. A basic course in microanalysis. Intensive study of the price system and resource allocation including the theory of demand; production and cost analysis; the pricing policies of business firms under various market structures. Specific reference will be made to decision-making in selected industries in the United States. 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 qualifying examination. Those who achieve 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 qualifying test will be administered on an individual basis in January. Students who wish to be admitted to the test should notify the Office of Graduate Studies, in writing, of their intention to take the test.

McCook Center 213 – Mr. Loughlin.

ECONOMICS 504. Mathematical Economics – Thursday. The application of mathematical techniques to problems of microeconomics and macroeconomics; linear programming; the theory of games. The course is designed primarily for economics majors with limited mathematical backgrounds. Prerequisite: Economics 501.

McCook Center 213 – Mr. Loughlin.

ECONOMICS 512. National Income Analysis and Business Cycles – Tuesday. National income accounts; determinants of the national income; nature and causes of economic fluctuations; business cycles theories; policies for controlling business fluctuations.

Prerequisite: Economics 511 or permission of the instructor.

Williams Memorial 301 – Mr. Towle.

ECONOMICS 522. Economic History of the United States – Thursday. A study of the problems of economic development in the United States from 1800 to the present. Special attention will be given to the significance of government policy and its relation to private investment, agriculture, the labor movement, technological innovation, business organization, and enterprise in the development process. Prerequisite: Economics 501 or the equivalent.

Williams Memorial 301 – Mr. Battis.

ECONOMICS 552. International Economic Problems – Monday. An intensive study of selected international economic problems of current interest. The course will be conducted largely on the basis of individual research projects and class reports. Among the subjects to be studied will be: trade restrictions; commercial policy; monopoly in international trade; European Common Market; foreign aid and development problems of economically backward countries; plans for the reform of the international monetary system. Prerequisite: Economics 501 or the equivalent.

Williams Memorial 301 – Mr. Michalopoulos.

ECONOMICS 572. Managerial Accounting – Wednesday. Introduction to general financial controls, the use and preparation of certain accounting records and statements on the part of management in controlling fiscal matters and in the formulating of policies. Emphasis is placed upon the theoretical and economic-conditioned matters involved in managerial decisions, thereby dealing with the results of general and cor-

porate accounting procedures rather than the procedures themselves. Presupposes a knowledge of elementary accounting principles.

Williams Memorial 301 – Mr. Tucker.

ECONOMICS 651–652. Thesis – Conference hours by appointment. Six semester hours. Investigation and report of an original research project. See *Degree Requirements*.
Mr. Towle 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 six half-year courses within the Department. The candidate will be advised to select for the remaining four or more half-year courses required for the degree other subject areas which will serve best the interests of the individual, provided the courses selected meet with the prior approval of the Department. A thesis (Education 651-652) is required of the majority of candidates, but a student may elect two half-year courses and a comprehensive examination in lieu of a thesis with permission of the Chairman of the Department. All candidates are 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 Observation and 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 staff 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.

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

Christmas Term - September to January

EDUCATION 491-492. Student Observation and 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.

Mr. Mackimmie and Staff.

***EDUCATION 501. History of Education** – *Monday*. 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 Center 225 – Mr. Morris.

***EDUCATION 503. Developmental Psychology** – *Tuesday*. 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 Center 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 Center 225 – Mr. Mackimmie.

***EDUCATION 570 (1). School Law** – *Wednesday*. 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 – *Thursday*. 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 Center 204 – Mr. Decker.

EDUCATION 651-652. Thesis – Conference hours by appointment. Six semester hours. The preparation of a comprehensive paper representing an original solution to a clearly-defined, significant educational problem. Prerequisite: Education 601: *Research in Education*. See *Degree Requirements*.

Mr. Mackimmie and Staff.

Trinity Term – February to June

EDUCATION 491-492. Student Observation and Teaching. May not be taken for graduate credit. Six semester hours of undergraduate credit. A laboratory course of supervised observation and teaching experi-

ence 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

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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.

Mr. Mackimmie and Staff.

***EDUCATION 502. Philosophies of Education – Monday.** An advanced course that will treat systematically and historically of the vital issues that are involved in any general theory of education. Major philosophies of education will be studied comparatively by student participation on panels reviewing each of the principal positions: neo-scholasticism, rational humanism, idealism, naturalistic realism, experimentalism, and existentialism. Toward the end of the course the student will be requested to construct for himself a philosophy of education adequate for the evaluation of his subsequent professional practice.

McCook Center 225 – Mr. Morris.

***EDUCATION 504. Differential Psychology – Tuesday.** 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 Center 225 – Mr. Decker.

***EDUCATION 507(2). The School and Society – Monday.** A study of the school as a 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 Center 213 – 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 Center 225 – Mr. Mackimmie.

***EDUCATION 541(2). Educational Measurement and Evaluation – Thursday.** 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 Center 225 – Mr. Decker.

EDUCATION 602. Seminar: Comparative Education – Wednesday. A comparative study of the structure, aims, and function of contemporary systems of education, including an analysis of the historical and socio-cultural factors leading to their present forms. Certain representative systems will be emphasized, specifically: England, France, Germany, Italy, Russia, India, and Japan. The educational problems facing other nations of the world will be stressed for comparative purposes. Attention will be given throughout to the methodology employed by scholars in the field. Prerequisite: 501, *History of Education*, or permission of the instructor.

McCook Center 213 – Mr. Morris.

EDUCATION 651-652. Thesis – Conference hours by appointment. Six semester hours. The preparation of a comprehensive paper representing an original solution to a clearly-defined, significant educational problem. Prerequisite: Education 601: *Research in Education*. See *Degree Requirements*.

Mr. Mackimmie and Staff.

ENGLISH

Acting 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.

There is no prescribed curriculum for the Master's degree. Each student's program of study is determined individually. In many cases the most logical program consists of those courses which treat periods or subjects omitted in the student's undergraduate preparation, or those which have some bearing on his professional interests. Students whose profession is teaching English should elect the courses in linguistics, advanced composition, and literary criticism.

Candidates are required to take a total of ten half-year courses, of which eight must be in the Department, including English 651-652: *Thesis*. Outside the Department, candidates may take any graduate course in history, linguistics, philosophy, religion, and ancient or modern foreign language or literature.

Summer Program in English

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

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Every summer

1. Linguistics
2. Advanced Composition

3. Literary Criticism
4. Thesis

1967

Genre: Poetry
Genre: Drama
Genre: Satire
Period: Renaissance
Period: Modern
Period: American
Writer: Shakespeare

1968

Genre: Fiction
Genre: Epic
Period: Medieval
Period: Neo-Classical
Period: Modern
Period: American
Writer: Milton

1969

Genre: Drama
Genre: Poetry
Period: Renaissance
Period: 19th Century
Period: Modern
Period: American
Writer: Modern

Courses in the English Program

501. Advanced Literary Writing
553. Studies in Chaucer
557. Studies in the Renaissance
558. Milton
559. Studies in Neo-Classicism
561. Studies in Romanticism
562. Studies in Victorian Literature
563. Studies in Contemporary Literature
571. Studies in Drama

- 573, 574. Studies in Fiction
575, 576. Studies in American Literature
577. Studies in Poetry
579. Studies in Criticism
581. Shakespeare
591. Studies in Ideas
593. Studies in English Language and Linguistics
651-652. Thesis

Christmas Term – September to January

ENGLISH 501. Advanced Expository Writing – *Thursday*. 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 Hall 16 – Mr. Risdon.

*ENGLISH 558 (1). Milton – *Tuesday*. Study of the poems and major prose, with particular attention to *Paradise Lost*. Lectures, classroom discussion, and student papers.

Seabury Hall 16 – Mr. McNulty.

*ENGLISH 571. Studies in Drama: Modern Drama – *Monday*. Reading and analytical discussion of plays illustrating the development of the principal technical, generic, and modal tendencies in the drama since the middle of the Nineteenth Century.

Seabury Hall 16 – Mr. Potter.

ENGLISH 591. Studies in Ideas: The Study of English – *Wednesday*. A seminar in some of the theoretical systems of linguistics, rhetoric, and criticism (e. g., Noam Chomsky, Kenneth Burke, and Northrop Frye) and their implications for teaching methods, course structure, and curricular

theory. Restricted to teachers or prospective teachers of English; some previous work in linguistics is recommended.

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 consideration by the whole Department and 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 – February to June

***ENGLISH 557(2).** Studies in Renaissance: Donne and Jonson – *Wednesday*. The development of English poetry in the early seventeenth century. Intensive reading of Donne and Jonson, with some attention to their followers.

Seabury Hall 16 – Mr. R. J. Lee.

***ENGLISH 574.** Studies in Fiction: Dickens, James, and Faulkner – *Monday*. A study of three major novelists in depth, with emphasis on modes of imitation and stylistic choice as determinants of meaning in fiction.

Seabury Hall 16 – Mr. Foulke.

***ENGLISH 579(2).** Studies in Literary Criticism – *Thursday*. 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, biographical, psychological, sociological, ideological, and mythological criticism.

Seabury Hall 16 – Mr. Benton.

ENGLISH 593(2). Studies in English Language and Linguistics – *Tuesday*. 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 Hall 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 consideration by the whole Department and 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

Although the Master of Arts program in government has always attracted public servants, it has not been the intention of the program to provide professional training. Candidates for the degree come from the clergy, law, education, and from other professions and not least from those whose interests are purely intel-

lectual. Candidates should normally have a Bachelor's degree in one of the social sciences or history although the absence of such a qualification is not necessarily a barrier to those whose undergraduate record was good. The Department must in any event pass 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 | 517. Government and Politics of Latin America |
| 502. American National Government | 521. International Politics |
| 504. American Political Thought | 522. International Law |
| 508. Totalitarian Government and Politics | 523. International Organization |
| 509. Congress and the Legislative Process | 532. Comparative Politics |
| 511. Public Administration | 533. Political Ideology |
| 512. Metropolitan Government | 580. Government and Politics of Asia |
| 513. American Political Parties | 621. Independent Study |
| 514. American Constitutional Law | 651-652. Thesis |
| 515. American Foreign Policy | |

Christmas Term – September to January

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 Hall 17 – Mr. Neaverson.

GOVERNMENT 511. Public Administration – Wednesday. The development and practice of modern public administration. The administrative process is examined with

special reference to the following factors: organizational structure and socio-cultural environment; theories of formal and informal organization; group behavior.

Seabury Hall 46 – Mr. McKee.

GOVERNMENT 521. International Politics – Tuesday. Basic aspects of world politics; the elements of national power and the techniques and politics of conflict resolution and accommodation in the modern international system.

Seabury Hall 46 – Mr. Gastmann.

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 – February to June

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

Seabury Hall 46 – Mr. Stedman.

GOVERNMENT 517 (2). Government and Politics of Latin America – Tuesday. Political development, modernization, and social change in Latin America. Particular attention is given to the organization and functioning of government.

Seabury Hall 46 – Mr. Gastmann.

GOVERNMENT 533 (2). Political Ideology – Monday. 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 Hall 14 – Mr. Neaverson.

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 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 should 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. A reading knowledge of one foreign language is required. The thesis is the final project of all candidates.

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

- 505. Greece, 594 to 338 B.C.
- 506. Greece, 338 to 200 B.C.
- 507. The Roman Republic
- 508. The Roman Empire
- 511. The Middle Ages
- 512. The Byzantine Empire and Islam
- 515. Renaissance and Reformation
- 517. Europe 1760-1870
- 518. Expansion of Europe
- 521, 522. European Diplomatic History
- 525, 526. England
- 527. Twentieth Century Britain
- 531, 532. France
- 535, 536. Germany
- 537. Studies in 19th and 20th Century European Intellectual History

- 538. Italy
- 541, 542. Russia
- 550. New England
- 552. United States: The Formative Years
- 553. American Sectionalism and the Civil War
- 561, 562. United States as a World Power
- 563. United States: Reconstruction to 1910
- 564. America in the Twentieth Century
- 571. Latin America
- 577. Modern Canada
- 580. Far East
- 590, 591. Africa
- 601, 602. Seminars: Various topics
- 651 - 652. Thesis

Christmas Term – September to January

***HISTORY 508 (1).** The Roman Empire, 44 B.C. to A.D. 180 – *Monday*. Rome from the death of Caesar through the age of the Antonines with especial emphasis on the Augustan Age; survey of the economic and social institutions of the High Empire.

Seabury Hall 34 – Mr. Davis.

***HISTORY 515.** Europe in the Period of Renaissance and Reformation – *Tuesday*. 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 Hall 4 – Mr. Painter.

***HISTORY 590 (1).** Africa in the Pre-Colonial Period – *Wednesday*. Problems and method of African history, traditional Afri-

can society, the spread of Islam and peripheral contact with classical and Western culture.

Seabury Hall 4 – Mr. Steele.

***HISTORY 601.** Seminar: The Crusades – *Thursday*. Each student will select for report a topic on some aspect of the Crusades in the 11th to 14th centuries. Particular attention will be paid to bibliography of the period. Prerequisite: a course in the Middle Ages or permission of the instructor.

Library Seminar Room 2 – Mr. Downs.

HISTORY 602A (1). 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 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 – February to June

***HISTORY 523 (2).** England in the Tudor-Stuart Period. – *Tuesday*. British history from 1485 to 1715. Topics will include: the establishment of the Tudor dynasty, the Tudor revolution in Church and State, the Elizabethan settlement, England and Europe in the sixteenth century, the Civil War, Restoration politics and diplomacy, and the reign of Queen Anne.

Seabury Hall 4 – Mr. Painter.

***HISTORY 551 (2).** The Colonial Period

in United States History – *Thursday*. The political, economic, and social history of the period.

Seabury Hall 4 – Mr. Weaver.

***HISTORY 564.** Topical Studies in U.S. History: The Twentieth Century – *Wednesday*. National change and development from the era of Theodore Roosevelt to the present.

McCook Center 204 – Mr. Sloan.

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***HISTORY 591(2).** Africa in the Nineteenth and Twentieth Centuries – *Wednesday*. The rise of European influence in Africa, colonization, decolonization, and problems of independence.

Seabury Hall 4 – Mr. Steele.

***HISTORY 602.** Seminar: The Crusades – *Thursday*. See description of History 601.

History 601 is not a prerequisite.

Library Seminar Room 2 – Mr. Downs.

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
553 and 554. Dante – *The Divine Comedy*

560. The Contemporary Italian Novel

LATIN LITERATURE AND CLASSICAL CIVILIZATION

Chairman and Graduate Adviser:

PROFESSOR JAMES A. NOTOPOULOS

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 Associate Dean of the College 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
- 502. Catullus and Horace
- 503. Cicero
- 504. Livy
- 505. Vergil: the *Aeneid*, Books I–VI
- 506. Vergil: the *Aeneid*, Books VII–XII
- 507. Vergil: *Eclogues* and *Georgics*
- 508. Caesar and Sallust

- 509. Lucretius
- 510. The Roman Love Elegy
- 511. Roman Satire
- 512. Ovid
- 513. Tacitus
- 514. Medieval Latin
- 521, 522. Special Readings

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Required Seminar

601-602. History of Latin Literature

Greek

101-102. Elementary Greek

201. Greek Prose

202. Homer

301, 302. Advanced Readings

Classical Civilization

501. Greek Archaeology

502. Roman Archaeology

503. Special Topics

MATHEMATICS

Chairman: PROFESSOR HAROLD L. DORWART

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 do so, but this course will not be credited toward the Master's degree. A thesis is not required.

All students beginning graduate work in mathematics at Trinity for the first time are required to receive written approval from the Graduate Adviser in Mathematics before they will be permitted to enroll in mathematics courses. Those planning to take Mathematics 500, 500A, or 500B do not need permission from the Graduate Adviser.

Courses in the Mathematics Program

500. Advanced Calculus
 500A. Advanced Calculus I
 500B. Advanced Calculus II
 501, 502. Introduction to Analysis
 503, 504. Theory of Functions of a
 Real Variable
 505. Theory of Probability
 506. Mathematical Statistics
 507, 508. Theory of Functions of a
 Complex Variable
 510. Introduction to Numerical Analysis
 511, 512. Advanced Numerical Analysis

514. Mathematical Logic
 517. Topology
 518. Introduction to Algebraic Topology
 519. Modern Algebra
 520. Linear Algebra
 521. Vector Analysis
 522. Vector and Tensor Analysis
 523. Foundations of Mathematics
 525, 526. Topics from Analysis
 601. Introduction to Functional Analysis
 603. Functional Analysis and Applied
 Mathematics

Christmas Term – September to January

MATHEMATICS 500 (1). Advanced Calculus—*Monday and Wednesday, 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 Center 303 – Mr. Seligman.

MATHEMATICS 500A (1). Advanced Calculus—*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 in-

tegral calculus or permission of the instructor.

McCook Center 305 – Mr. Pikul.

MATHEMATICS 501. Introduction to Analysis I—*Monday and Wednesday, 7:00–8:15.* Sets and functions, sequences and series of real numbers, limits and metric spaces, complete and compact metric spaces. Prerequisite: Permission of Graduate Adviser.

McCook Center 305 – Mr. Klimczak.

***MATHEMATICS 503.** Theory of Functions of a Real Variable I—*Tuesday and Thursday, 7:00–8:15.* Real numbers, metric spaces, the algebra of sets, outer measure, measurable functions, the Lebesgue integral, convergence theorems, the Radon-Nikodym theorem, the Lebesgue decomposition. Prerequisite: Permission of Graduate Adviser.

McCook Center 309 – Mr. Boyer.

***MATHEMATICS 505.** Theory of Probability—*Tuesday and Thursday, 7:00–8:15.* Stochastic variable, axiomatic definition of mathematical probability, probability functions, density functions, joint distributions,

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functions of stochastic variables, moments, tests of statistical hypotheses, random sampling. Prerequisite: Mathematics 500 or its equivalent.

McCook Center 311 – Mr. Anderson.

MATHEMATICS 507. Theory of Functions of a Complex Variable I – *Tuesday and Thursday, 7:00–8:15.* A rigorous treatment of the theory of functions of a single variable. The algebra of complex numbers, analytic functions, complex integration, Cauchy integral theorem and formulas, power series. Prerequisite: Mathematics 504 or its equivalent.

McCook Center 307 – Mr. Ahlberg.

***MATHEMATICS 517.** Topology – *Monday and Wednesday, 7:00–8:15.* Sets and

functions, metric spaces and metrizability, topological spaces and their maps, compactness, separation, connectedness. Prerequisite: Mathematics 500 or its equivalent.

McCook Center 307 – Mr. Poliferno.

***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-Holder 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 Center 303 – Mr. Mattson.

Trinity Term – February to June

MATHEMATICS 500. Advanced Calculus – *Monday and Wednesday, 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 Center 305 – Mr. Bennett.

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 differen-

tial equations, introduction to analytic functions of a complex variable, Cauchy integral theorem and formulas. Prerequisite: differential and integral calculus or permission of the instructor.

McCook Center 305 – Mr. Pikul.

***MATHEMATICS 502.** Introduction to Analysis II – *Tuesday and Thursday, 7:00–8:15.* The Riemann integral, the elementary functions, Taylor series, sequences and series of functions, theory of integration. Prerequisite: Mathematics 501.

McCook Center 303 – Mr. Poliferno.

***MATHEMATICS 504.** Theory of Functions of a Real Variable II – *Tuesday and Thursday, 7:00–8:15.* Product measures, Fubini's theorem, Lp-spaces, Banach and Hilbert spaces, topics selected from the following: ergodic theory, differentiation theory, probability theory, the Daniell approach to integration. Prerequisite: Mathematics 503.

McCook Center 309 – Mr. Boyer.

***MATHEMATICS 506.** *Mathematical Statistics – Tuesday and Thursday, 7:00–8:15.* Correlation and regression, tests of statistical hypotheses, small sample distributions, analysis of variance, topics in calculus, central limit theorem, Poisson distribution, laws of large numbers. Prerequisite: Mathematics 505.

McCook Center 311 – Mr. Anderson.

MATHEMATICS 508. *Theory of Functions of a Complex Variable II – Tuesday and Thursday, 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 Center 307 – Mr. Ahlberg.

***MATHEMATICS 510.** *Introduction to Numerical Analysis – Monday and Wednesday, 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 Center 303 – Mr. Seligman.

***MATHEMATICS 518.** *Introduction to Algebraic Topology – Monday and Wednesday, 7:00–8:15.* Compact 2-manifolds, their classification, coverings, homology and fundamental groups. Simplicial and singular complexes, their homology and cohomology groups. Homotopy groups. Prerequisite: Mathematics 517 or permission of the instructor.

McCook Center 307 – Mr. Whittlesey.

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, an understanding of the culture and civilization of the nation concerned, and, only when necessary, improvement in the oral and written use of the language. 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 one advanced, full-year college course in literature) 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, one in applied linguistics, and one in advanced conversation and syntax. A literature course may be substituted for linguistics when similar work has previously been taken, and also for the language course for the candidate whose proficiency in the language is already very good. 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.

In 1966 the comprehensive examinations in French and Spanish literature will be held on Friday, September 30 and Saturday, October 1 and in 1967 on Friday, September 29 and Saturday, September 30. Each examination will consist of a written section, approximately six 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 | 513, 514. Studies in Lyric Poetry |
| 502. Advanced Conversation and Syntax | 515, 516. Studies in Drama |
| 503, 504. Civilization and Culture | 517, 518. Studies in Fiction |
| 505. Masterpieces of French Literature | 519. Proust and Gide |
| 507, 508. Studies in French Classicism | 520. Existentialism |
| 509, 510. Studies in the Eighteenth Century | 521. Renaissance Prose |
| 511. Studies in Romanticism | 522. Renaissance Poetry |
| 512. Studies in Realism and Naturalism | 523. Literary Criticism |

Spanish

- | | |
|--|--|
| 501. Linguistics | 509, 510. Studies in the Nineteenth Century |
| 502. Advanced Conversation and Syntax | 511. The Generation of '98 |
| 503, 504. Civilization and Culture | 513, 514. Studies in the Twentieth Century |
| 505. Masterpieces of Spanish Literature | 515, 516. Studies in Spanish American Literature |
| 506. Cervantes | |
| 507, 508. Studies in the <i>Siglo de Oro</i> | |

Christmas Term – September to January

*FRENCH 512 (1). The Realist and Naturalist Novel – *Wednesday*. A study and analysis of realism and naturalism in France in the nineteenth century as exemplified by selected novels of Stendhal, Balzac, Flaubert, and Zola. Lectures, discussions, reports, and papers.

McCook Center 213 – Mr. Leavitt.

*SPANISH 513. The Modern Novel in Spain – *Thursday*. A comprehensive selection of the works of Spain's greatest Twentieth Century novelists, including Unamuno, Baroja, Valle-Inclán, Pérez de Ayala, Cela, Ana María Matute. Lectures, discussions, and oral and written reports. Conducted in Spanish.

McCook Center 213 – Mr. Hernández.

Trinity Term – February to June

*FRENCH 514. French Poetry 1850–1900 – *Wednesday*. A study of Parnassian and Symbolist poets. Close analysis and interpretation of selected works of Leconte de Lisle, Hérédia, Baudelaire, Rimbaud, Verlaine, and Mallarmé. Other poets to be studied are Nerval, Gautier, Lautréamont, Corbière, Cros, Lafargue, Verhaeren.

McCook Center 309 – Mr. Waterman.

*SPANISH 510. Spanish Drama and Poetry of the Nineteenth Century – *Thursday*. A study of selected dramatic and poetic works representing the neoclassic, romantic, and realist concepts in 19th-century Spanish literature. As a preliminary introduction

to the Spanish theater of the 19th century, the general state of the theater in the 18th century, including the famous polemics between traditionalists and neoclassicists, will be examined. Authors to be read include Leandro Fernández de Moratín, el Duque de Rivas, José Zorrilla, Mariano José de Larra, Juan Eugenio Hartzenbusch, Antonio García Gutiérrez, Ventura de la Vega, Bretón de los Herreros, Tamayo y Baus, José de Espronceda, Ramón de Campoamor, Rosalía de Castro, and Gustav Adolfo Bécquer. Lectures, reports, and discussions. Conducted in Spanish.

Seabury Hall 14 – 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 or the Office of Graduate Studies.

Courses in the Philosophy Program

- | | |
|---|--|
| <p>501. Introduction to Philosophy
 541. Rationalism
 543. Pragmatism
 544. Social Ethics
 545. Problems in Analytic Philosophy
 546. Freud
 553. American Philosophy</p> | <p>555. Existentialism
 601. Philosophy of Religion
 602. Seminar – Various topics
 (Phenomenology, Philosophical Analysis,
 Moral Philosophy, Metaphysics)
 651–652. Thesis</p> |
|---|--|

Christmas Term – September to January

*PHILOSOPHY 531. History of Philosophy I – *Tuesday*. History of ancient and early medieval philosophy, concentrating on Plato, Aristotle, Epicureanism, Stoicism, Neoplatonism, Augustine, and Aquinas.
 McCook Center 204 – Mr. Brown.

*PHILOSOPHY 542 (1). Seminar: Metaphysics – *Monday*. A study of selected fundamental problems: determinism and freedom of the will; the relation of mind and

body; the nature of time; the problem of verification of metaphysical theses.
 McCook Center 204 – Mr. Means

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 – February to June

*PHILOSOPHY 510. Literary Criticism and Philosophy of Language – *Monday*. A systematic comparison of the ordinary and artistic uses of language. Problems will include cognitive and non-cognitive meanings of words, the informative and formative character of syntax, the contextual determination of meaning, the nature of metaphor, and the relevance of the writer's intention.

McCook Center 204 – Mr. Foulke and Mr. R. T. Lee.

*PHILOSOPHY 532. History of Philosophy II – *Tuesday*. History of later medieval and modern philosophy through the eighteenth century, concentrating on Descartes, Spinoza, Leibnitz, Hobbes, Locke, Berkeley, Hume, and Kant.
 McCook Center 204 – Mr. Brown.

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 Thursday evening, September 15, 1966, at 7:30 P.M. in Room 301, Williams Memorial. 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 January

PHYSICS 501. *Classical Mechanics – Monday and Wednesday, 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 Thursday evening September 15, 1966, at 7:30 P.M. in Room 301, Williams Memorial. 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.

McCook Center 102 – Mr. McCune.

***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 Center 102 – Mr. Sziklas.

***PHYSICS 519.** *Solid State Physics I – Monday and Wednesday, 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 Center 106 – Mr. Witt.

Trinity Term – February to June

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 Center 311.

***PHYSICS 502.** *Classical Mechanics – Monday and Wednesday, 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 Center 102 – Mr. McCune.

***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 Center 102 – Mr. Sziklas.

***PHYSICS 520. Solid State Physics II—**
Monday and Wednesday, 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
. Superconductivity including the thermo-

dynamics 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 Center 106 – Mr. Witt.

Masters Degrees

Conferred at the Commencement

June 5, 1966

Phyllis Blumenthal Abrahms
Nellie Agnes Agostino

Richard Graham Akers
Margaret Penfield Andrian
Phebe Schade Baker
Jack Anton Birnkammer
Edson Lee Blackman
Virginia Archer Blakeslee
Virginia Steuer Blodget
Paul Peter Boccaccio
Nancy Kennedy Brazel
David Graham Brush
Jerome James Burke
Robert Peter Burns
Kwang Ho Chung
John Horace Churchman, Jr.
William James Controvillas
John Paul Duffy
Richard Joseph Duncan
William Lindsay Eddy
Barbara Toman Elliott
Ruth Elizabeth Ellwood
Gail Dianne Fitch
Alan Foster Flynn, Jr.
Claude Raymond Gagnon
Mary Kay Miller Gagnon
Robert Wallace Gardner
Samuel Francis Garro, Jr.
Richard Marshall Glendening
Edward Pearle Goodrow
Florence Gledhill Greene
Judith Kirby Gunning
Carol Ann Hastings
Thomas Cameron Hayden

Wallace Coates Husson
Carol Bacon Hyman
Ronald Lee Johnson
Stuart William Katzke
Siegbert Kaufmann
Leonard Wood Keogh

B.A., 1941, George Washington University M.A.
B.A., 1949, Saint Joseph College M.A.
M.A., 1952, Trinity College M.A.
B.A., 1958, Hamilton College M.A.
B.A., 1949, Duke University M.A.
B.A., 1961, Brown University M.A.
B.S., 1951, Saint Lawrence University M.A.
B.S., 1964, Trinity College M.S.
B.A., 1943, Mount Holyoke College M.A.
B.A., 1959, University of Connecticut M.A.
B.S., 1959, Central Connecticut State College M.A.
B.S., 1944, Saint Joseph College M.A.
B.A., 1963, Brown University M.S.
B.S., 1962, Fairfield University M.S.
B.A., 1959, Saint Bernard College M.A.
B.S., 1958, B.S.M.E., 1961, University of Hartford M.S.
B.A., 1964, Trinity College M.A.
B.A., 1959, New School for Social Research M.A.
B.A., 1952, University of Connecticut M.A.
B.S., 1952, Union College M.A.
B.A., 1955, Princeton University M.A.
B.A., 1960, Albertus Magnus College M.A.
B.S., 1960, Central Connecticut State College M.A.
B.A., 1961, Goucher College M.A.
B.A., 1954, Wesleyan University M.A.
B.S., 1958, Kansas State University M.S.
B.S., 1960, Kansas State University M.S.
B.A., 1963, Trinity College M.A.
B.S.S., 1963, Fairfield University M.A.
B.S., 1959, Central Connecticut State College M.A.
B.S., 1951, Central Connecticut State College M.A.
B.A., 1924, Wheaton College M.A.
B.S., 1960, Saint Joseph College M.A.
B.A., 1965, Mount Holyoke College M.A.
B.A., 1957, Harvard University M.A.
M.Ed., 1960, Boston University M.A.
B.A., 1963, Connecticut College M.A.
B.S., 1954, Saint Joseph College M.A.
B.S., 1962, Rose Polytechnic Institute M.S.
B.S., 1962, City College of New York M.S.
B.A., 1949, Trinity College M.A.
B.S., 1949, Central Connecticut State College M.A.

Joan Helen Kirby	B.A., 1961, State University of Iowa	M.A.
Anna May Kove	B.A., 1963, Saint Joseph College	M.A.
Glen Sherman Lawrence	B.S., 1960, Case Institute of Technology	M.S.
William Robert McCurdy	B.A., 1933, Trinity College	M.A.
Lawrence James McDonnell	B.S., 1958, Loyola University	M.S.
Edward Francis McFadden, III	B.M.E., 1960, Rensselaer Polytechnic Institute	M.S.
Miles Francis McNiff, III	B.A., 1961, Yale University	M.A.
Joanne Eleanor Mono	B.S.Ed., 1960, Westfield State College	M.A.
David Richard Mueller	B.A., 1956, Swarthmore College	M.A.
Brenda Mary Odum	B.S., 1965, Boston University	M.A.
Carl Joseph Otfinoski	B.A., 1959, University of Hartford	M.A.
John Alexander Patterson	B.A., 1962, University of Rhode Island	M.A.
Dona Jane Pawloski	B.A., 1957, University of Connecticut	M.A.
Laurence Hungerford Roberts, Jr.	B.S., 1944, M.S., 1950, Trinity College	M.A.
Frederick Bruce Robinson, Jr.	B.A., 1962, Trinity College	M.A.
Sheldon Norman Robinson	B.S., 1962, City College of New York	M.S.
Robert Armstrong Rogers	B.E.S., 1960, Johns Hopkins University	M.A.
Margaret Swering Sapega	B.A., 1949, Wellesley College	M.A.
Gintas Simonaitis	B.S., 1959, Trinity College	M.A.
Joseph John Sinicrope	B.A., 1964, Trinity College	M.A.
Joseph George Sneider	B.S.S., 1962, Fairfield University	M.A.
Joseph Matthew Stankoski	B.S.I.E., 1961, General Motors Institute	M.S.
Jonathan Curtis Stock	B.A., 1964, Bowdoin College	M.A.
Judith Anderson Stoutland	B.A., 1954, Saint Olaf College	M.A.
Curtis Taylor Tapley	B.A., 1953, University of Connecticut	M.A.
Carol Koenig Triplette	B.A., 1962, University of Kentucky	M.A.
James Matthews Troy	B.A., 1957, University of Connecticut	M.A.
Brenda Joy Vumbaco	B.A., 1963, Seton Hill College	M.A.
John McIntyre Werly	B.A., 1961, Trinity College	M.A.
John Francis Whalen	B.A., 1960, University of Hartford	M.A.
Donald Clarence Wilson	B.A., 1957, Atlantic Union College	M.A.
William Worthington	B.A., 1931, Harvard University	M.A.
Arthur Edward Yacubian	B.A., 1959, Eastern Nazarene College	M.S.
Robert Vincent Zara	B.S., 1962, Massachusetts Institute of Technology	M.S.



ALLEN PLACE