

Stanford University

Courses and Degrees  
1964-65

ENROLLING AND TESTING CENTER  
STANFORD UNIVERSITY

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Stanford, California

*Published by the University*

## COMMUNICATION

*Emeritus:* Chilton R. Bush ( *Professor* )

*Executive Head:* Clifford Francis Weigle

*Associate Executive Head, Broadcasting and Film:* Stanley T. Donner

*Director, Institute for Communication Research:* Wilbur Schramm

*Professors:* Stanley T. Donner, Nathan Maccoby, Wilbur Schramm, Clifford

Francis Weigle. *Consulting:* Grant Fairbanks

*Associate Professors:* James Everett Brinton, Edwin B. Parker. *Visiting:* William L. Rivers

*Assistant Professors:* Richard F. Carter, Richard Rees Fagen. *Acting:* John David Lewis

*Instructor:* Henry S. Breitrose

*Lecturers:* Lyle M. Nelson, Templeton Peck

The Department of Communication engages in research in communication and offers a curriculum which prepares its students for careers in journalism, broadcasting, film, and communication research.

The main objectives of the curriculum are to equip the student with an adequate set of professional values; to provide a broad program in the social and humanistic studies; and to present courses in the processes and effects of communication.

A secondary objective is to provide that amount of training in skills and techniques that will sustain the student's interest in his chosen profession while he is in college and will assist him in beginning his career.

The technical courses provide not only practice but a content that is an application of some of the principles of the behavioral sciences and humanities. The technical curriculum in this sense is like the curricula of the Schools of Medicine and Engineering which apply the principles of the biological and physical sciences.

## ADMISSION

Undergraduate students who have been admitted by the University are accepted as majors provisionally for one quarter. Thereafter, the student's record is reviewed quarterly by the Department.

Students who wish an undergraduate minor in the Department may arrange for a suitable sequence of preprofessional courses.

Prospective undergraduate students should write the Office of Admissions.

Prospective graduate students should write to: Executive Head, Department of Communication, Stanford University, Stanford, California.

The Department requires that applications for admission to Master's degree programs include verbal and quantitative scores from the Graduate Record Examination (area scores are optional). Scores from the Miller Analogies Test are required of applicants who hope to work toward a Ph.D. and are optional, but welcomed, for Master's degree candidates.

## PROGRAMS OF STUDY

### Bachelor of Arts

Two Bachelor of Arts degree programs are available, one in the Journalism Division and one in the Broadcasting and Film Division. Requirements are as follows:

1. Two courses in general or English literature; Psychology 1; Sociology 1 or Anthropology 1. In addition, Journalism Division students are required to take Economics 1 and Political Science 1 and 10 or 20.

2a. Broadcasting and Film Division: Communication 1, 100a, b, and c, 105a, b, and c, and 110a or b or c, 113, 114, 141 or 142, 180.

2b. Journalism Division: Twenty-five to thirty units in communication of which the following courses are required: 1, 50, 51, 103, 107, and 140. In addition, the student preparing for newspaper or press association editorial work will take Communication 109, 169 and 175; the student preparing for advertising work will take Communication 115 and 116; the student interested primarily in writing for consumer magazines and industrial publication will take Communication 109, 150 and 169.

3. A unified program totaling not less than 20 units of courses numbered 100 or higher shall be arranged, with the approval of the adviser, from one or two other departments such as Anthropology, Art, Economics, English, History, Music, Philosophy, Political Science, Psychology, Sociology, or Speech and Drama.

While the Department offers no courses in such subjects as science reporting, technical writing, or public relations, appropriate programs of study can be arranged for interested students. For example, a prospective science writer could be permitted to substitute a unified program of courses in the physical sciences in lieu of requirement "3" above.

Majors in Communication may elect one of the following interdisciplinary honors programs:

Behavioral Sciences (Honors Program in Quantitative Methods)

Humanities Undergraduate Honors Program.

Social Sciences (Honors Program in Social Thought and Institutions)

### Communication Honors Program

In addition to the regular undergraduate programs in communication, a Communication Honors Program is designed for those exceptionally able students who wish, in their major, to pursue an intensive and somewhat independent study of communication. This program is directed toward the integration of a substantial body of theoretical and factual information and the development of both communication skills and creative scholarly skills by independent study, tutorial guidance, small seminars, and research experience. Particular emphasis is placed on the planning of an individual program for the student that will combine his specialized interests with a body of basic knowledge about communication processes. The plan will be aimed at helping the student prepare for a comprehensive examination to be taken in the final quarter of his senior year, over his entire area of communication study. The plan will include arrangements for continuous supervised work in communications skills or in communication research. A report of the work done under this plan will be submitted as an undergraduate thesis at the end of the next to final quarter of the student's senior year. It is possible for a student to elect both the Communication Honors Program and one of the three interdisciplinary honors programs listed above.

### Master of Arts

The Master of Arts degree is awarded by the Department in the fields of Journalism, Broadcasting and Film, or Communication Research. Requirements are as follows:

1. The candidate must earn 45 units in graduate residence at Stanford; he must earn an average grade of B on his entire program of study. An independent project under the direction of a major professor must be undertaken. Three to six hours of credit in independent study may be applied to this requirement. A report of the project must be made to the professor directing the independent study. A candidate

may petition the Department by the end of the second week of the second quarter for permission to submit the report as a thesis.

2. A unified program of advanced course work is to be arranged with the approval of the adviser. This includes appropriate grounding in research methodology and communication theory; it includes training in one or more communication media; and, it includes the equivalent of a minor in a related field—or a cohesive group of courses in several fields.

3. Students electing a program in Broadcasting and Film are required to attend the Summer Institute; to spend an internship of three months with a professional radio or television station, film production unit, or a related organization; and, to take a comprehensive written examination at the end of the course work. (No tuition is charged for the internship period.)

No particular specialization in undergraduate work is expected of a candidate. Special programs of study may be tailored for individual candidates, which will take account of the nature of their previous preparation.

### Doctor of Philosophy

In addition to fulfilling the residence requirement for the degree, Ph.D. candidates are required to:

1. Complete course requirements for a Master's degree in Communication, and complete a research project. Holders of the Master's degree may be excused from this first year research requirement if the faculty feels that the previous research has been sufficient.

2. Complete the following courses: Communication 211, 212, 213; 217, 218, 219. Psychology 150a, 150b.

3. Complete courses in experimental psychology, social psychology, and sociology in preparation for comprehensive written and oral examinations in these areas.

4. Complete additional optional courses selected from the list given below, up to a total (including courses required above) of not less than 45 units beyond the Master's degree or 90 units beyond the Bachelor's degree. Such additional courses are intended as preparation for the comprehensive examinations and to achieve competence in depth in a field from which his dissertation topic may be selected.

5. Pass a comprehensive written examination in the subjects required of all candidates and in the area of advanced specialty of the particular candidate.

6. Demonstrate reading knowledge of a foreign language. Except by special permission, this language will be Russian, French, or German.

7. Pass the University oral examination, which may be either a comprehensive examination covering the same areas as the written examination or a defense of the dissertation.

8. Complete at least one year of research experience in the Institute for Communication Research, or in comparable research activities.

9. Have some familiarity with at least one medium of mass communication. Such familiarity may be obtained prior to graduate study by working for a communication medium. Students without such practical experience will be expected to take some media-oriented courses, such as the Summer Radio-Television-Film Institute, as part of their graduate program.

10. Complete a dissertation satisfactory to (a) a Departmental committee of two or more members and to the University Committee on the Graduate Division, the latter to be appointed after the dissertation is completed, or (b) a Departmental committee of two or more members and an outside reader (approved by the Dean of the Graduate Division) who aids in the supervision of the research.

Ph.D. candidacy expires five years after admission to candidacy by the University Committee on the Graduate Division. Reapplication will require reexamination.

Other programs leading toward the Ph.D. and involving communication may be

pursued in the Graduate Division Special Programs. Such programs are individually planned for unusually well-qualified students.

*Minor for the Degree of Doctor of Philosophy*—Candidates for the degree of Doctor of Philosophy in other departments who elect a minor in Communication will be expected to complete the equivalent of the Communication course requirements for an A.M. in Communication, of which at least 15 units must be taken as a graduate student at Stanford. The program to be followed will be adapted to the needs of each candidate.

The following is an example of a typical Ph.D. program :

1. Communication Theory
  - Comm. 211. Theory of Communication I—Mass Communication
  - Comm. 212. Theory of Communication II—Communication Processes
  - Comm. 213. Theory of Communication III—Groups and Networks
2. Methodology
  - Comm. 217. Research Methods I—Introduction to Scientific Method
  - Comm. 218. Research Methods II—Data Collection
  - Comm. 219. Research Methods III—Design and Analysis
3. Statistics
  - Psych. 150a. Advanced Statistical Methods, Correlation
  - Psych. 150b. Advanced Statistical Methods, Statistical Inference
  - Psych. 250. Advanced Statistical Methods, Multivariate Analysis
4. Experimental Psychology (at least two of the following ; order may be altered from year to year)
  - Psych. 103a. Experimental Psychology—Cognition
  - Psych. 103b. Experimental Psychology—Perception
  - Psych. 103c. Experimental Psychology—Learning
5. Social Psychology and Personality
  - Psych. 112. Social Psychology
  - Psych. 135. Intermediate Social Psychology
  - Psych. 212. Advanced Social Psychology  
(at least one of the following)
  - Psych. 160. Abnormal Psychology
  - Psych. 195. Personality
  - Psych. 197. Dynamic Psychology
6. Sociology (at least two of the following)
  - Sociol. 61. Introduction to Small Groups
  - Sociol. 62. Introduction to Formal Organization
  - Sociol. 108. Social Stratification

Preparation for examinations and for the dissertation should include selected courses from among the following :

- Comm. 220. Mass Communications in Society
- Comm. 255. International Communication
- Comm. 230. Advertising and Media Research
- Comm. 260. Content Analysis
- Comm. 275. Attitude Measurement
- Psych. 209. Advanced Perception
- Psych. 210. Advanced Learning
- Psych. 213. Organizational Processes
- Psych. 214. Motivation
- Psych. 261. Seminar in Social Psychology
- Psych. 198. Trends in Cognitive Theory
- Psych. 267. Seminar in Interpersonal Processes
- Phil. 157a, b. Logic
- Phil. 164. Philosophy of Science

- Stat. 206, 207. Mathematical Models in Behavioral Sciences  
 Anthr. 176. Language and Culture  
 Anthr. 164. Culture and Personality  
 Pol.Sci. 162. Advanced Study of Political Behavior  
 Pol.Sci. 262. Seminar in Political Behavior : Modes of Analysis  
 Sociol. 280. Research Seminar on Influence Processes  
 C.S. 136. Use of Automatic Digital Computers

Other courses and special advanced reading courses may be selected in conference with the adviser.

### THE INSTITUTE FOR COMMUNICATION RESEARCH

The Institute for Communication Research operates as an office of project research for the faculties of the Department of Communication and other departments, on grants from foundations, communication media, and other agencies, on government contracts, and on its own funds. A few research assistantships are available to qualified graduate students. Among the qualifications which will be highly valued in applicants are high scholarship, training in the behavioral sciences (preferably psychology and sociology, including training in statistics and research methodology), and training for or experience with the mass media.

## COURSES OPEN TO UNDERGRADUATES AND GRADUATES

### I. GENERAL

**#1. Communication and Society**—An introductory survey of the structure, functions, philosophy, process, and effects of mass and interpersonal communication in modern society. Taught from a behavioral science perspective. Open to nonmajors.

*5 units, winter, (Parker), MTW 10 and section*

**70. Introduction to Survey Research**—An introductory course in survey research methods. Formulation of problems, study design, sampling, interviewing, data processing and analysis, and writing of reports of public opinion surveys. Designed primarily for undergraduate nonmajors. Prerequisite: Psychology 60 or equivalent.

*3 units, spring, (Maccoby), M 2:15-4:05*

**156. Media Management**—Principles of business operation of newspapers, magazines, radio-TV; emphasis on revenue factors. Nonmajor students require consent of instructor.

*3 units, spring, (Brinton), by arrangement*

**199. Individual Work**—Major students with high academic standing are permitted to undertake individual work.

*1 to 2 units, any quarter, (Staff), by arrangement*

### II. JOURNALISM

**50. Editorial Techniques I**—Theory and techniques of news communication for newspapers and radio-TV; analysis of journalist's audience; representative media; journalistic vocations. To be taken concurrently with Communication 51. Open to nonmajors.

*3 units, autumn, spring, (Rivers), MWF 9*

**51. Editorial Techniques I Laboratory**—Practice in news writing. Weekly conferences, laboratory, outside assignments. To be taken concurrently with Communication 50. Open to nonmajors. Prerequisite: typing skill of 35 words per minute (may be met by taking Typing 1).

*1 unit, autumn, spring, (Rivers), by arrangement*

**103. Mechanics of Publishing**—Typography, printing processes. Lecture, laboratory. Usually taken concurrently with Communication 107. Prerequisites: 50 and 51.

*3 units, winter, (Brinton), TTh 9; lab. by arrangement*

**107. Editorial Techniques II**—Copy editing, headline writing, news display, illustration, newspaper library reference methods. In laboratory, class edits daily teleprinter report of Associated Press or United Press International. Usually taken concurrently with Communication 103. Prerequisites: 50 and 51, junior standing.

*3 units, winter, (Weigle), MW 9; lab. by arrangement*

**109. Editorial Techniques III**—Advanced news writing for newspapers, radio-TV. Conducted in cooperation with the Palo Alto *Times*. Prerequisites: 50 and 51, junior standing. Majors only.

*2 units, spring, (Brinton), by arrangement*

**115. Advertising I**—Fundamentals of marketing, consumer research, media, copy, layout. Open to nonmajors.

*3 units, autumn, (Brinton), MWF 11*

**116. Advertising II**—Analysis of advertising campaigns in marketing, public relations. Advanced practice in copywriting, media selection, retail advertiser service. Prerequisite: 115.

*3 units, winter, (Brinton), MWF 11*

**140. History of Anglo-American Journalism**—Open to nonmajors.

*3 units, autumn, (Weigle), TTh 9*

*4 units, summer, (—), by arrangement*

**150. Forms of Journalistic Writing**—Practice in writing magazine articles, with emphasis on marketing manuscripts. Conferences. Prerequisites: senior standing and 50 and 51 or consent of instructor.

*3 units, autumn, (Rivers), TTh 11*

*4 units, summer, (—), TTh 10*

**152. Magazine Editorial Techniques**—Planning, writing, production studied with local magazine editors, correspondents; industrial editing. Prerequisite: 150, consent of instructor.

*3 units, spring, (Rivers), by arrangement*

**169. Legal Aspects of Journalism**—Libel, contempt, constitutional guaranties, privacy, copyright, inspection of public records.

*3 units, winter, (Fagen), TTh 9*

**175. Reporting of Public Affairs**—Local, state, federal courts; municipal, state, federal administration in the local community. Open only to major students with senior standing.

*4 units, winter, (Rivers), MWF 10*

### *Practice Courses*

**121. Advanced Practice**—Practice work in executive positions on editorial or business staff of *The Stanford Daily*; weekly conferences. Open to undergraduate students who qualify by election or appointment; not open to graduate students. Students limited to total of 7 units credit. Credit may not be offered in fulfillment of Communication unit requirements for degrees in communication.

*1 to 2 units, each quarter, (Staff), by arrangement*

**183. San Francisco Newspaper Practice**—Majors who have made a high record in their entire program, and especially in 175, are permitted to work in San Francisco in the senior year, by arrangement with San Francisco newspapers. Work is under supervision of specially appointed San Francisco newspapermen and faculty of the Department.

*5 units, spring, (Weigle), by arrangement*

**Curriculum and Instruction in Secondary School Journalistic Writing**—See Education 285.

### III. BROADCASTING AND FILM

**100. Theory of Broadcasting and Film**—Approaches to radio, television, and film as media of communication, art, and commerce. Background and nature of the organization and processes of broadcasting and film.

- 100a. Broadcasting I.**  
*3 units, winter, (Lewis), MWF 9*
- 100b. Broadcasting II.**  
*3 units, spring, (Lewis), MWF 10*
- 100c. Film.**  
*4 units, autumn, (Breitrose), MWF 9*
- 105. Practice in Broadcasting and Film**—Actual production and direction of various forms in radio, television, and film, respectively. Complete production facilities are used in each medium.
- 105a. Radio.**  
*4 units, autumn, (Lewis), TTh 1:15-3:05*
- 105b. Television.**  
*4 units, winter, (Lewis), TTh 1:15-3:05*
- 105c. Film.**  
*4 units, autumn, (Breitrose), MW 2:15-4:05*
- 110. Experiment in Broadcasting and Film**—Experimental approaches to content, forms, methods, and techniques in these constantly evolving media. Complete production facilities are used in each medium. Prerequisite: the appropriate course from the 105 series, or equivalent.
- 110a. Radio.**  
*3 units, winter, (Lewis), T 10-11 and Th 10-12*
- 110b. Television.**  
*3 units, spring, (Lewis), T 1:15 and Th 1:15-3:05*
- 110c. Film.**  
*3 units, winter, (Breitrose), T 10-11 and Th 10-12*
- 113. Writing for Broadcasting**—Writing of nondramatic forms for broadcast, including news, educational programs, music continuity, and documentary. To be taken concurrently with Communication 114.  
*2 units, autumn, (Lewis), MWF 11*
- 114. Broadcast Journalism Laboratory**—Procedures of the broadcast newsroom. Use of radio and film techniques for features and documentaries. Practice in KZSU newsroom. To be taken concurrently with Communication 113.  
*1 unit, autumn, (Lewis), by arrangement*
- 123. Advanced Writing for Broadcasting**—Study and analysis of dramatic, documentary, and informational programs for television. Practice and criticism in the writing of these forms.  
*4 units, spring, (Lewis), MW 2:15-4:05*
- 141. History of Film**—Studies in the development of the motion picture as an art form and a means of communication. Lab.: Screenings of films to be announced in class.  
*4 units, spring, (Breitrose), MWF 9; lab. by arrangement*
- 142. History of Broadcasting**—Studies in the development of broadcasting as communication.  
*4 units, winter, (Donner), TTh 9*
- 180. Broadcasting and Film Criticism**—The techniques and role of criticism based upon the objectives and potential of these media. For advanced students. Prerequisite: consent of instructor.  
*3 units, spring, (Donner), MWF 11*

*Summer Radio-Television-Film Institute*

**R201. Noncommercial Station Operation**—A course taught in the studios of KQED for advanced students who wish to learn the philosophy, administration, origin, planning, and coordination of noncommercial television programs. (Same as Education 341s; see *Summer Session Bulletin*.)

*3 units, summer, (KQED Staff), by arrangement*



**R203. Teaching by Television**—The growing impact of television as an instrument of education; the challenge and specific requirements of teaching by television; the utilization of educational program material telecast by commercial and non-commercial stations. Laboratory work in campus classroom studio with video tape playback and evaluation. (Same as Education 342s; see *Summer Session Bulletin*.)

*3 units, summer, (Staff), by arrangement*

**R204. Modern Broadcasting**—The key questions of broadcasting from the viewpoint of station management, programming and sales in relations with government, personnel, ratings, and sponsors. Emphasis on FM, multiplexing, modern production methods, and international broadcasting. Special study of 1964 convention and election coverage on network and local levels. Laboratory work through one unit of R204a taken concurrently.

*3 units, summer, (KNBR Staff), by arrangement*

**R204a. Radio Laboratory**—Direct application of the radio course work will be made through the student management and operation of the University station, KZSU. Two weeks' on-the-air experience in all forms of broadcasting including management, program planning, engineering, production and performance. All students registered for R204 must take at least one unit of this course. It may be taken separately from R204 for 1-2 units. Recommended for all students.

*1 unit, summer, (Staff), by arrangement*

**R205. Film Production**—Basic theory and techniques of film making. Individual student productions from script to release print. Cameras, lighting, sound, editing. Limited to 15 students. Students with prior work in film production may register for Communication 299, Advanced Individual Work, 1-4 units, with the consent of the instructor.

*4 units, summer, (Staff), by arrangement*

**R207. Radio and Television Writing**—Theory and practice in writing for radio and television. Special emphasis on the documentary and other nondramatic forms.

*3 units, summer, (Staff), by arrangement*

**R209. Radio and Television News**—Practical course to train students for work in the radio and television newsroom; gathering, selection, rewriting, editing and reporting of news for broadcast and TV newsfilm; production and direction of feature material and special events broadcasts. Students handle news department of KZSU.

*3 units, summer, (KNBR Staff), by arrangement*

**R211. Commercial Television Programming**—Theory and practice of program planning and scheduling. Community, sponsors, ratings, and competition in relation to programming decisions. Analysis of film versus live and local versus network. Lecture and demonstration including problems of remote pick-ups.

*3 units, summer, (KPIX Staff), by arrangement*

**R214. Television Production**—Practice in television planning, direction, and performance through student production of a variety of program types, both educational and commercial. Programs are video taped for analysis and criticism.

*3 units, summer, (KPIX Staff), by arrangement*

(Mass Communications in Society—See Communication 220. Required of all students.)

## COURSES PRIMARILY FOR GRADUATES

**211. Theory of Communication I**—Theory, structure, and effects of mass communication. Analysis of the literature.

*5 units, autumn, (Schramm), M 2:15-4:05 and additional meetings by arrangement*

**212. Theory of Communication II**—Theory of the communication process. Analysis of the experimental literature in attitude change.

*5 units, winter, (Maccoby), MW 2:15-4:05*

**213. Theory of Communication III**—Theory of communication in groups and

communication networks. The theory of information and meaning. Analysis of the literature.

*5 units, spring, (Schramm), M 2:15-4:05, and additional meetings by arrangement*

**215. Behavioral Science in Broadcasting and Film**—A comprehensive survey of the contribution of behavioral science theory and research to radio, television, and film. Methods and findings of behavioral science research on effects of forms and contents of audio-visual communication on audience learning of skills, information, and attitudes. For A.M. candidates primarily.

*3 to 5 units, autumn, (Maccoby, Donner), Th 7-10 p.m.*

**217. Communication Research Methods I**—Methods of research in mass, group and interpersonal communication. Application of scientific method to communication research. Design of communication studies for laboratory and field experiments and sample surveys. Conceptualization of variables, sampling, data collection, interview techniques, data processing and data analysis. Report preparation. Prerequisite: previous or concurrent registration in elementary statistics.

*4 units, autumn, (Maccoby, Parker), TTh 2:15-4:05*

**218. Communication Research Methods II**—Continuation of 217.

*4 units, winter, (Maccoby), TTh 2:15-4:05*

**219. Communication Research Methods III**—Continuation of 218.

*4 units, spring, (Maccoby, Parker), TTh 2:15-4:05*

**220. Mass Communications in Society**—A survey lecture course on the nature and social responsibilities of the media, the structure of the industry, problems of regulation, management, educational and commercial interests, and social effects of the mass media.

*5 units, autumn, (Donner, Parker), MTW 10 and section*

*4 units, summer, (Staff), by arrangement*

**230. Advertising and Media Research**—Procedures for advertising and media research, audience measurement, and consumer analysis. Prerequisite: consent of instructor.

*3 units, spring, (Brinton), F 2:15-4:05*

**255. International Communication**—Chief patterns of mass communications throughout the world; philosophies behind them; economic, social, political reasons why a given kind of pattern develops where it does; channels by which nations, cultures communicate with each other; kinds of barrier which intervene in those channels; manipulative communication between nations which is characteristic of the "cold war."

*4 units, spring, (Schramm, Fagen), M 2:15-4:05*

**260. Content Analysis**—The method of frequency, contingency, and qualitative analysis of texts.

*3 units, autumn, (Carter), W 2:15-4:05*

**265. Seminar in Speech Communication**—Survey of the parameters of speech signals, and their production and reception. Analysis of the experimental and theoretical literature.

*4 units, spring, (Fairbanks), by arrangement*

**275. Attitude Measurement.**

*3 units, winter, (Carter), by arrangement*

**299. Advanced Individual Work**—Graduate majors may supplement certain courses with individual projects of distinctly advanced order.

*1 to 5 units, any quarter, (Staff), by arrangement*

**300. Thesis.**

*(Staff), by arrangement*

**309. Directed Graduate Research**—Research in connection with a staff project, in lieu of Master's thesis.

*(Staff), by arrangement*

**310. Proseminar in Broadcasting and Film**—Introduction to various types of bibliographical research and research methods in radio, television, and film, through

study of selected problems. Required of all graduate students in broadcasting and film.

*4 units, winter, (Donner), by arrangement*

**311. Seminar in Broadcasting and Film**—Directed studies in areas of bibliography, audience research, program analysis, production problems, and effects of these media on society. Required of all graduate students in broadcasting and film.

*4 units, spring, (Donner), by arrangement*

**312. Seminar in Film History and Criticism**—Studies in the theory, history, and criticism of film, with emphasis on significant film makers and movements, as well as on recently developed research methodologies in these areas.

*4 units, winter, (Breitrose), by arrangement*

## ECONOMICS

*Emeriti:* Theodore Harding Boggs, Elmer Daniel Fagan, Bernard Francis Haley, Eliot Jones, Albert Conser Whitaker (*Professors*)

*Executive Head:* Moses Abramovitz

*Directors:* Paul Hartman (Undergraduate Study), Marc Nerlove (Graduate Study)

*Professors:* Moses Abramovitz, Kenneth Joseph Arrow, Emile Despres (on leave 1964-65), John Grey Gurley, Julius Margolis, Marc Nerlove, Melvin Warren Reder, Edward Stone Shaw, Lorie Tarshis

*Assistant Professors:* Richard Eugene Attiyeh, Paul Allan David, Paul Theodore Hartman, Paul Hohenberg, Ronald Ian McKinnon, G. S. Maddala, Roy Emerson Murphy, Jr., Earl Albert Thompson

*Affiliated Faculty*

*Professors:* Alan S. Manne (Graduate School of Business), Helen Cherington Farnsworth, Roger W. Gray, Richard J. Hammond, Bruce F. Johnston, William Orville Jones, S. Daniel Neumark (Food Research Institute)

*Assistant Professor:* Charles O. Meiburg (Food Research Institute)

## OFFERINGS AND FACILITIES

The Department's purposes are to acquaint students with the economic aspects of modern society, to familiarize them with techniques for the analysis of contemporary economic problems, and to develop in them an ability to exercise sound judgment in evaluating public policy. There is training for the general student as well as for those who plan careers as economists in civil service, private enterprise, teaching, or research. Associated with the Department are the Research Center for Economic Growth in Encina Hall, for research and graduate training in problems of economic growth in both industrialized and developing countries, and comparable facilities in Serra House for mathematical economics and econometrics.

The University Library is well supplied with literature in all fields of economics. The Hopkins Transportation Library holds invaluable material on transportation problems, and there are special collections on the institutions and commerce of Latin America, the Orient, and Pacific Coast development. Advanced students have access to the Hoover Institution, with its comprehensive collections of original and secondary materials on many foreign nations.

Qualified graduate students in economics are given the opportunity for training and research in the special fields of the Food Research Institute. A few courses for undergraduates are conducted by the Institute, as well. Courses offered by the Institute count toward completion of requirements for degrees in economics.