

480. Reviewing and Criticism
Winter. 3(3-0) Approval of school.
 Reporting the arts for newspapers and magazines. Lectures and assignments in reviewing motion pictures, plays, musicals, books, concerts and exhibitions.

499. Individual Projects
Fall, Winter, Spring, Summer. 1 to 3 credits. Approval of school.
 Individual problems as arranged with instructor.

800. Seminar in Research Methods in Journalism
Fall. 4 credits.

Problems and techniques of selected research methods, including content analysis, demographic surveys, case method, and historical method. Applications to student projects, with attention to bibliography, documentation, and style.

811. Seminar in Journalism and its Audiences
Fall. 3(3-0)

Audiences of journalistic media.

815. Seminar in the Press and Society
Winter. 4 credits.

Provides opportunity to work in areas of special interest and study significant problems relating to role of the press in modern society.

820. Seminar in History of Journalism
Spring. 4 credits.

Selected periods in the history of American journalism. Students will read widely in the literature of journalism for the period under discussion, and will make first-hand study of original files of newspapers and magazines of period.

823. Government and Mass Communications
Spring. 4(3-0)

Contemporary issues resulting from the restrictive, regulatory, and supplementary activities of government in the field of mass communications; current constitutional and administrative problems of the mass media.

875. The Press in the Soviet Union
Fall. 4(4-0) 475; approval of school.

Historical development of press; Soviet concept of news and information; Role of Agitprop; party guidelines; structure, type, and characteristics of the press.

876. The Press in Communist East Europe
Winter. 4(4-0) 475; approval of school.

Effects of political, economic and cultural stresses on philosophy and function of the press. Changing nature of journalism and its practitioners. Major focus on Yugoslavia.

877. The Press in Latin America
Spring. 4(4-0) 475; approval of school.

Historical roots of the press; techniques of control; the journalist and his audiences; political, economic, legal, and cultural barriers to communication; the journalist's role; the press as a social institution.

890. Special Problems
Fall, Winter, Spring, Summer. 1 to 12 credits.

899. Research
Fall, Winter, Spring. Variable credit.
Approval of school.

**JUSTIN MORRILL
 COLLEGE**

JMC

Arts and Humanities—Languages

French

104A. French Track I
Fall. 5(5-0) 104B concurrently.

Intensive study of French, for students with no previous training, leading to proficiency in understanding, speaking, reading and writing, through lectures, recitation and laboratory practices.

104B. French Track I
Fall. 3 credits. 104A concurrently.

Oral practice.

165A. French Track I
Winter. 5(5-0) 104A, 104B; 165B concurrently.
 Continuation of 104A.

165B. French Track I
Winter. 3 credits. 165A concurrently.
 Oral practice. Continuation of 104B.

204A. French Track II
(201A.) Fall. 4(4-0) Two years high school French, placement test. 204B concurrently.

Intensive study of French for oral understanding, speaking, reading and writing, to permit enriched cultural insight.

204B. French Track II
(201B.) Fall. 3 credits. Two years high school French, placement test. 204A concurrently.
 Oral practice.

246A. French Track I
Spring. 5(5-0) 165A, 165B; 246B concurrently.
 Continuation of 165A.

246B. French Track I
Spring. 3(3-0) 246A concurrently.
 Oral practice. Continuation of 165B.

265A. French Track II
(262A.) Winter. 4(4-0) 204A, 204B; 265B concurrently.
 Continuation of 204A.

265B. French Track II
(262B.) Winter. 3 credits. 265A concurrently.
 Oral practice. Continuation of 204B.

306A. French Track II
(303A.) Spring. 4(4-0) 265A, 265B; 306B concurrently.
 Continuation of 265A.

306B. French Track II
(303B.) Spring. 3 credits. 306A concurrently.
 Oral practice. Continuation of 265B.

224A. French Track III
(221A.) Fall. 4(4-0) Three years high school French, placement test. 224B concurrently.

Intensive study of French for oral understanding, speaking, reading, and writing to permit enriched cultural insight.

224B. French Track III
(221B.) Fall. 2 credits. Three years high school French, placement test. 224A concurrently.

Oral practice.

285A. French Track III
(282A.) Winter. 4(4-0) 224A, 224B; 285B concurrently.
 Continuation of 224A.

285B. French Track III
(282B.) Winter. 2 credits. 285A concurrently.
 Oral practice. Continuation of 224B.

336A. French Track III
(333A.) Spring. 4(4-0) 285A, 285B; 336B concurrently.
 Continuation of 285A.

336B. French Track III
(333B.) Spring. 2 credits. 336A concurrently.
 Oral practice. Continuation of 285B.

274A. French Track IV
(271A.) Fall. 3(3-0) Four years high school French, placement test. 274B concurrently.

Intensive study of French for oral understanding, speaking and writing to permit enriched cultural insight.

274B. French Track IV
(271B.) Fall. 2 credits. Four years high school French, placement test. 274A concurrently.
 Oral practice.

324A. French Track IV
(322A.) Winter. 3(3-0) 274A, 274B; 324B concurrently.
 Continuation of 274A.

324B. French Track IV
(322B.) Winter. 2 credits. 324A concurrently.
 Oral practice. Continuation of 274B.

356A. French Track IV
(353A.) Spring. 3(3-0) 324A, 324B; 356B concurrently.
 Continuation of 324A.

356B. French Track IV
(353B.) Spring. 2 credits. 356A concurrently.
 Oral practice. Continuation of 324B.

Russian**105A. Russian**

Fall. 5(5-0) 105B concurrently.

Intensive study of Russian for oral understanding, speaking, reading, and writing to permit enriched cultural insight.

105B. Russian

Fall. 3(2-2) 105A concurrently.

Oral practice.

166A. Russian

Winter. 5(5-0) 105A; 166B concurrently.

Continuation of 105A.

166B. Russian

Winter. 3(2-2) 105B; 166A concurrently.

Continuation of 105B.

227A. Russian

Spring. 5(5-0) 166A; 227B concurrently.

Continuation of 166A.

227B. Russian

Spring. 3(2-2) 166B; 227A concurrently.

Continuation of 166B.

Spanish**106A. Spanish Track I**

Fall. 5(5-0) 106B concurrently.

Intensive study of Spanish for students, with no previous training, leading to proficiency in understanding, speaking, reading and writing, through lectures, recitations and laboratory practices.

106B. Spanish Track I

Fall. 3 credits. 106A concurrently.

Oral practice.

167A. Spanish Track I

Winter. 5(5-0) 106A, 106B; 167B concurrently.

Continuation of 106A.

167B. Spanish Track I

Winter. 3 credits. 167A concurrently.

Oral practice. Continuation of 106B.

216A. Spanish Track II

(206A.) Fall. 4(4-0) Two years high school Spanish, placement test. 216B concurrently.

Intensive study of Spanish for oral understanding, speaking, reading, and writing to permit enriched cultural insight.

216B. Spanish Track II

(206B.) Fall. 3 credits. Two years high school Spanish, placement test. 216A concurrently.

Oral practice.

228A. Spanish Track I

Spring. 5(5-0) 167A, 167B; 228B concurrently.

Continuation of 167A.

228B. Spanish Track I

Spring. 3 credits. 228A concurrently.

Oral practice. Continuation of 167B.

277A. Spanish Track II

(267A.) Winter. 4(4-0) 216A,

216B; 277B concurrently.

Continuation of 216A.

277B. Spanish Track II

(267B.) Winter. 3 credits. 277A concurrently.

Oral practice. Continuation of 216B.

318A. Spanish Track II

(308A.) Spring. 4(4-0) 277A, 277B; 318B concurrently.

Continuation of 277A.

318B. Spanish Track II

(308B.) Spring. 3 credits. 318A concurrently.

Oral practice. Continuation of 277B.

236A. Spanish Track III

(226A.) Fall. 4(4-0) Three years high school Spanish, placement test. 236B Concurrently.

Intensive study of Spanish for oral understanding, speaking, reading, and writing to permit enriched cultural insight.

236B. Spanish Track III

(226B.) Fall. 2 credits. Three years high school Spanish, placement test. 236A concurrently.

Oral practice.

297A. Spanish Track III

(287A.) Winter. 4(4-0) 236A, 236B; 297B concurrently.

Continuation of 236A.

297B. Spanish Track III

(287B.) Winter. 2 credits. 297A concurrently.

Oral practice. Continuation of 236B.

348A. Spanish Track III

(338A.) Spring. 4(4-0) 297A, 297B; 348B concurrently.

Continuation of 297A.

348B. Spanish Track III

(338B.) Spring. 2 credits. 348A concurrently.

Oral practice. Continuation of 297B.

286A. Spanish Track IV

(276A.) Fall. 3(3-0) Four years high school Spanish, placement test. 286B concurrently.

Intensive study of Spanish for oral understanding, speaking, and writing to permit enriched cultural insight.

286B. Spanish Track IV

(276B.) Fall. 2 credits. Four years high school Spanish, placement test. 286A concurrently.

Oral practice.

337A. Spanish Track IV

(327A.) Winter. 3(3-0) 286A, 286B; 337B concurrently.

Continuation of 286A.

337B. Spanish Track IV

(327B.) Winter. 2 credits. 337A concurrently.

Oral practice. Continuation of 286B.

368A. Spanish Track IV

(358A.) Spring. 3(3-0) 337A, 337B; 368B concurrently.

Continuation of 337A.

368B. Spanish Track IV

(358B.) Spring. 2 credits. 368A concurrently.

Oral practice. Continuation of 337B.

**Arts and Humanities—
Language and Culture****141A. Studies in Language and Culture**

Fall. 3(3-0) 141B concurrently.

Analysis of language in human culture and of language learning to acquaint the student with a broad knowledge of the nature and function of language with illustrations from a variety of languages, ancient and modern.

141B. Studies in Language and Culture

Fall. 1 credit. 141A concurrently.

Independent study in language and culture.

142A. Studies in Language and Culture

Winter. 3(3-0) 141A or approval of college; 142B concurrently.

Lectures on the basic concepts of phonetics and phonemics with intensive drills in the recognition, transcription and reproduction of sound, rhythm, tone and intonation to prepare students to transcribe any language he may study. Phonemic drills will be possible for the language students will study in the following term.

142B. Studies in Language and Culture

Winter. 1 credit. 142A concurrently.

Independent study in language and culture.

**Arts and Humanities—
Inquiry and Expression****101A. Inquiry and Expression**

Fall. 1(1-0) 101B concurrently.

Lectures and discussions on different topics.

101B. Inquiry and Expression

Fall. 3(1-1) 101A concurrently.

Intensive instruction and criticism in writing upon topics drawn chiefly from the common lecture. Instruction in small seminar groups.

102A. Inquiry and Expression

Winter. 1(1-0) 101A; 102B concurrently.

Continuation of 101A.

102B. Inquiry and Expression

Winter. 3(1-1) 101B; 102A concurrently.

Continuation of 101B.

103A. Inquiry and Expression

Spring. 1(1-0) 102A; 103B concurrently.
Continuation of 102A.

103B. Inquiry and Expression

Spring. 3(1-1) 102B; 103A concurrently.
Continuation of 102B.

Arts and Humanities—Other

230A. History

Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 6 credits if different topic is taken. 230B concurrently.
Study in the discipline of history with selected periods, areas and topics. Occasionally offered in the foreign languages of the College.

230B. History

Fall, Winter, Spring. 1 credit. May re-enroll for a maximum of 2 credits if different topic is taken. 230A concurrently.
Independent study in history.

231A. Literature

Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 6 credits if different topic is taken. 231B concurrently.
Study in the discipline of literature with selected topics, periods, and genres. Occasionally offered in the foreign languages of the College.

231B. Literature

Fall, Winter, Spring. 1 credit. May re-enroll for a maximum of 2 credits if different topic is taken. 231A concurrently.
Independent study in literature.

232A. Philosophy

Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 6 credits if different topic is taken. 232B concurrently.
Study in the discipline of the philosophy with selected thinkers, methods and issues. Offered occasionally in the foreign languages of the College.

232B. Philosophy

Fall, Winter, Spring. 1 credit. May re-enroll for a maximum of 2 credits if different topic is taken. 232A concurrently.
Independent study in philosophy.

233A. Religion

Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 6 credits if different topic is taken. 233B concurrently.
Study in the discipline of religion with selected religions, figures, literature, and topics. Occasionally offered in the foreign languages of the College.

233B. Religion

Fall, Winter, Spring. 1 credit. May re-enroll for a maximum of 2 credits if different topic is taken. 233A concurrently.
Independent study in religion.

234A. Fine Arts

Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 6 credits if different topic is taken. 234B concurrently.
Study in the disciplines of the fine arts with selected artists, schools, periods and genres. Occasionally offered in the foreign languages of the College.

234B. Fine Arts

Fall, Winter, Spring. 1 credit. May re-enroll for a maximum of 2 credits if different topic is taken. 234A concurrently.
Independent study in fine arts.

Social Sciences

250A. Sociology

Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 6 credits if different topic is taken. 250B concurrently.
Study in the discipline of sociology with selected topics and schools. Occasionally offered in the foreign languages of the college.

250B. Sociology

Fall, Winter, Spring. 1 credit. May re-enroll for a maximum of 2 credits if different topic is taken. 250A concurrently.
Independent study in sociology.

251A. Psychology

Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 6 credits if different topic is taken. 251B concurrently.
Study in the discipline of psychology with selected schools, topics, and figures. Occasionally offered in the foreign languages of the College.

251B. Psychology

Fall, Winter, Spring. 1 credit. May re-enroll for a maximum of 2 credits if different topic is taken. 251A concurrently.
Independent study in psychology.

252A. Political Science

Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 6 credits if different topic is taken. 252B concurrently.
Study in the discipline of political science with selected periods, topics, and issues. Occasionally offered in the foreign languages of the College.

252B. Political Science

Fall, Winter, Spring. 1 credit. May re-enroll for a maximum of 2 credits if different topic is taken. 252A concurrently.
Independent study in political science.

253A. Economics

Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 6 credits if different topic is taken. 253B concurrently.
Study in the discipline of economics with selected schools, economics, areas, and topics. Occasionally offered in the foreign languages of the College.

253B. Economics

Fall, Winter, Spring. 1 credit. May re-enroll for a maximum of 2 credits if different topic is taken. 253A concurrently.
Independent study in economics.

254A. Geography

Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 6 credits if different topic is taken. 254B concurrently.
Study in the discipline of geography with selected areas of the world, cultures, topics, and issues. Occasionally offered in the foreign languages of the College.

254B. Geography

Fall, Winter, Spring. 1 credit. May re-enroll for a maximum of 2 credits if different topic is taken. 254A concurrently.
Independent study in geography.

255A. Anthropology

Fall, Winter, Spring. 3(3-0) May re-enroll for a maximum of 6 credits if different topic is taken. 255B concurrently.
An introduction to the work and interests of anthropologists, for the purpose of providing general education in the social sciences.

255B. Anthropology

Fall, Winter, Spring. 1 credit. May re-enroll for a maximum of 2 credits if different topic is taken. 255A concurrently.
Independent study in anthropology.

Natural Sciences

121A. The Nature of Physical Theory

(121., 183.) Fall. 3(3-0) 121B concurrently.

Selected theories of physical science illustrative of man's attempts to understand his physical surroundings. The major revolutions in the nature of physical thought. The formulation, impact and modification of the Mechanistic world view.

121B. The Nature of Physical Theory

(121., 183.) Fall. 1 credit. 121A concurrently.

Laboratory or independent study in the nature of physical theory.

122A. Biological Continuity

(122., 181.) Winter. 3(3-0) 121A; 122B concurrently.

Theory of the gene. Molecular explanations of heredity. Some aspects and implications of human heredity. Background material in cell structure and function and in reproduction.

122B. Biological Continuity

(122., 181.) Winter. 1 credit. 121A; 122A concurrently.

Laboratory or independent study in biological continuity.

123A. Man in the Natural World

(123., 182.) Spring. 3(3-0) 121A; 123B concurrently.

The great controversies which have centered around man's attempts to explain the origin of the earth's features and the diversity of life on earth. Analysis of these controversies, their social impact, and the man's place in the biological world.

123B. Man in the Natural World

(123., 182.) Spring. 3(3-0) 121A; 123A concurrently.

Laboratory or independent study in the nature of man in the natural world.

320A. Science and Culture

Fall, Winter, Spring. 3(3-0) 121A; 320B concurrently.

Studies of the interaction between the natural sciences and selected aspects of culture. Implications of the sciences for national and international problems. The relations of science and the humanities.

320B. Science and Culture

Fall, Winter, Spring. 1 credit. 121A; 320A concurrently.

Independent study in science and culture.

321A. Studies in Science

(321.) Fall, Winter, Spring. 3(3-0) 121A; 321B concurrently.

Studies in selected topics and areas of the natural sciences.

321B. Studies in Science

(321.) Fall, Winter, Spring. 1 credit. 121A; 321A concurrently.

Independent study in topics or areas of the natural sciences.

Independent, Field, and Foreign Study

400A. Independent Study

Fall, Winter, Spring, Summer. 4 to 12 credits. Approval of college.

Study in a selected number of ways on a selected number of topics under the guidance of the student's adviser.

400B. Field Study

Fall, Winter, Spring, Summer. 4 to 12 credits. Approval of college.

Study in off-campus situations in a variety of ways using involvement in community service, government, or business as means to cultural insight.

400C. Foreign Study

Fall, Winter, Spring, Summer. 4 to 12 credits. Approval of college.

Study abroad in a variety of places under the guidance of an adviser.

410. Studies in Composition

Fall, Winter, Spring. 4 to 8 credits. 103A, 103B.

Intensive individual and seminar instruction in advanced composition.

499. Senior Seminar

Fall, Winter, Spring. 5(5-0) Seniors.

Study of selected topics of international and cross-cultural significance in small groups. Each student will be expected to approach his topic from at least two disciplinary points of view.

LABOR AND INDUSTRIAL RELATIONS

LIR

College of Social Science

801. Labor in Twentieth Century America

Fall, Winter. 4(3-0) EC 305 or approval of school.

Review of the history of American labor and its evolving structure and an analysis of current problems facing unions.

803. Seminar in Industrial Relations

For course description, see Interdisciplinary Courses.

811. Manpower Programs and Institutions

Winter. 4(4-0) EC 457.
Role and effectiveness of the public employment service, vocational and apprenticeship programs, retraining and vocational rehabilitation activities, etc., as instruments of an active manpower policy.

815. Labor Force Behavior

Spring. 4(4-0) EC 457.
Theoretical and empirical analysis of factors affecting labor force participation rates, unemployment levels, employment distribution, hours of work, and labor mobility. Concepts and measurement methods.

817. Methods of Program Evaluation

Winter. 4(3-0) Approval of school.
Principles of benefit-cost analysis, cost-effectiveness analysis, and other methods of evaluation applicable to human resource programs.

823. Organizational Behavior in Labor and Industrial Relations

Fall. 4(4-0) Approval of school. Interdepartmental with the Sociology Department.
Analysis of why organizations, individuals and groups in unions, management and government act as they do in industrial relations situations with emphasis on sociological, psychological and cultural factors.

824. Employment Relations

Fall, Winter. 4(3-0) Approval of school.

A social system approach to employment relations and employee utilization in private and public organizations.

825. Employee Compensation and Incentives

Spring. 4(3-0) MGT 810 or approval of school.

Theory and practice of payment systems in private and public employment. Compensation and motivation. Job evaluation and performance review. Incentive plans, executive compensation, and fringe benefits.

833. Data Sources and Research Methods in Labor and Industrial Relations

Fall, Winter. 4(3-0) STT 201 or 421.

Review and evaluation of sources and data, analysis of research design and methods used in study of labor and industrial relations.

841. Collective Bargaining in Public Employment

Spring, Summer. 4(3-0) EC 305 or approval of school.

History and current status of collective bargaining practices and governmental policies in the public sector.

854. Comparative Industrial Relations Systems

Winter. 4(3-0) EC 305.
Comparative analysis of industrial relations systems in countries of various stages of economic development.

865. Grievance Administration and Arbitration

Winter, Spring. 4(3-0) Approval of school.

Grievance procedure and arbitration as the terminal step in the grievance process. Analysis of industrial common law.

881. Advanced Seminar in Labor and Industrial Relations

Spring. 4(4-0) May re-enroll for a maximum of 8 credits. Twelve graduate credits or approval of school.

Integrative and synthesizing seminar for advanced students; intensive analysis of selected problems in labor and industrial relations.

895. Readings in Labor and Industrial Relations

Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 8 credits. Approval of school.

899. Research in Labor and Industrial Relations

Fall, Winter, Spring, Summer. Variable credit. May re-enroll for a maximum of 9 credits. Approval of school.

911. Seminar in Manpower

Fall. 4(3-0) Approval of school.
Critical study of research and policy on selected manpower problems.

958. Seminar in Collective Bargaining

Spring. 4(3-0) EC 858 or approval of school.

Critical study of selected contemporary areas and issues in collective bargaining.

LABORATORY ANIMAL RESOURCES*

LAR

College of Veterinary Medicine

824. Laboratory Animal Medicine

(VSM 824.) Fall, Spring. 3(2-3)
Completion of ninth-term professional Veterinary Medicine program.

Basic physiologic data, housing requirements, genetics, breeding systems, diseases, humane practices, and nutrition, of major laboratory animal species; administration of animal quarters, techniques of handling and treatment.

LANDSCAPE ARCHITECTURE

See Urban Planning and Landscape Architecture

LARGE ANIMAL SURGERY AND MEDICINE**

LSM

College of Veterinary Medicine

412. Livestock Hygiene and Disease Control

(VSM 412.) Winter. 3(3-0) Juniors; Agriculture majors.

Fundamentals of health and disease in animals, relation of infectious and parasitic diseases of animals to human health, disease prevention and role of veterinarian in preventive medicine.

505. Large Animal Clinic I

Fall, Winter, Spring, Summer. 3(0-10)
Eighth-term or ninth-term Veterinary Medicine students.

Clinical instruction and experience in diagnosis, patient care, medication, surgery, disease prevention, and herd health.

521. Large Animal Surgery and Medicine I

(VSM 521.) Fall, Spring. 8(7-3)
Seventh-term Veterinary Medicine students.

Occurrence, etiology, symptomatology, diagnosis, prognosis, treatment and prevention of diseases of reproductive, digestive, and respiratory systems. Demonstrations of laboratory experience in basic clinical skills including restraint, diagnosis, medication, and surgery.

522. Large Animal Surgery and Medicine II

(VSM 522.) Winter, Summer. 6(5-3)
521.

Occurrence, diagnosis and treatment of surgical diseases of large animals. Discussion of diseases of cardiovascular, hematopoietic, urinary, nervous and integumentary systems. Demonstrations and laboratory experience in large animal surgery techniques.

*Established June 1, 1967.

**Established November 1, 1968. Formerly part of the Department of Veterinary Surgery and Medicine.