

389A. Interdisciplinary Special Topics
Fall, Winter, Spring. 3(3-0) or 4(3-0)
May re-enroll for a maximum of 8 credits if
different topic is taken.
Special studies relating material from several
disciplines.

389B. Interdisciplinary Special Topics
Fall, Winter, Spring. 1 to 4 credits.
May re-enroll for a maximum of 8 credits.
Independent study of topics relating material
from several disciplines.

410. Studies in Composition
Fall, Winter, Spring. 4 to 8 credits.
103.
Intensive individual and seminar instruction in
advanced composition.

497. Senior Project
Fall, Winter, Spring. 3 to 5 credits.
Seniors.

Project stressing integration and synthesis of a
student's field of concentration under the guid-
ance of the student's adviser.

498. Senior Thesis
Fall, Winter, Spring. 3 to 5 credits.
Seniors.

Thesis stressing integration and synthesis of
a student's field of concentration under the
supervision of a faculty member.

499. Senior Seminar
Fall, Winter, Spring. 3 credits. Seniors.
Seminar on selected topics, stressing synthesis
and integration of student's area of concentra-
tion.

LABOR AND INDUSTRIAL RELATIONS

LIR

College of Social Science

**801. Labor in Twentieth Century
America**
Fall, Winter. 4(3-0) EC 305 or ap-
proval of school.
Review of the history of American labor and
its evolving structure and an analysis of cur-
rent problems facing unions.

IDC. Seminar in Industrial Relations
For course description, see Interdis-
ciplinary Courses.

809. Labor Markets
Fall, Winter. 4(4-0) Approval of
school.
Review of labor market structures and processes;
forces affecting work and wages; and public
policy on manpower development and utilization
and on income maintenance.

**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.

813. Income Maintenance Programs
Fall. 4(3-0) Approval of school.
Causes and social consequences of poverty.
Nature and effectiveness of income transfer pro-
grams against poverty and insecurity. Integra-
tion with manpower programs. Relation be-
tween public and private programs.

815. Labor Force Behavior
Spring. 4(4-0) EC 457. Interdepart-
mental with the Department of Economics.
Theoretical and empirical analysis of factors af-
fecting labor force participation rates, unemploy-
ment levels, employment distribution, hours of
work, and labor mobility. Concepts and meas-
urement methods.

817. Methods of Program Evaluation
Winter. 4(3-0) Approval of school.
Principles of benefit-cost analysis, cost-effec-
tiveness analysis, and other methods of evalua-
tion applicable to human resource programs.

**823. Organizational Behavior in
Labor and Industrial Relations**
Fall. 4(4-0) Approval of school. Inter-
departmental 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 rela-
tions and employee utilization in private and
public organizations.

**825. Employee Compensation and
Incentives**
Spring. 4(3-0) MGT 810 or ap-
proval of school.
Theory and practice of payment systems in
private and public employment. Compensa-
tion and motivation. Job evaluation and per-
formance review. Incentive plans, executive
compensation, and fringe benefits.

826. Organizational Development
Spring. 4(4-0) Approval of school.
Application of general systems and organiza-
tional behavior theories to the problems of
organizational change and development in labor
and industrial relations, with particular em-
phasis on the roles of leadership and change
agents.

**833. Data Sources and Research
Methods in Labor and Industrial
Relations**
Fall, Winter. 4(3-0) One under-
graduate statistics course.
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 bargain-
ing 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 of countries in various stages of econ-
omic development.

857. Wage Theory
Fall. 3 credits. EC 320, 324, or
approval of department. Interdepartmental with
and administered by the Economics Department.
Advanced analysis of: theories of wage deter-
mination; labor market research; economic
effects of collective bargaining upon the na-
tional wage structure, output, employment, dis-
tribution of national income, the price level;
nature and effects of government wage policies.

858. Industrial Relations
Winter. 3 credits. EC 305 and ap-
proval of department. Open to graduate stu-
dents in economics and related fields such as
labor and industrial relations, psychology, soci-
ology, anthropology, political science, business,
and history. Interdepartmental and adminis-
tered jointly with the Economics Department.
Problems and issues in the administration and
negotiation of collective bargaining agreements;
includes both economic and noneconomic aspects
of industrial relations policies and practices.

**863. Law of Labor-Management
Relations**
Winter, Spring. 4(4-0) Approval of
school.
The National Labor Relations Act as amended:
rights to organize and undertake concerted ac-
tivity; legal framework of contract negotiations;
representation of bargaining unit members; un-
ion member rights; proposed statutory changes.

**865. Grievance Administration and
Arbitration**
Winter, Spring. 4(3-0) Approval of
school.
Grievance procedure and arbitration as the ter-
minal 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 cred-
its or approval of school.
Integrative and synthesizing seminar for ad-
vanced students; intensive analysis of selected
problems in labor and industrial relations.

**895. Readings in Labor and Industrial
Relations**
Fall, Winter, Spring, Summer. Vari-
able credit. May re-enroll for a maximum of 8
credits. Approval of school.

**899. Research in Labor and Industrial
Relations**
Fall, Winter, Spring, Summer. Vari-
able credit. May re-enroll for a maximum of 9
credits. Approval of school.

901. Seminar in Trade Union Behavior
Fall. 4(4-0) 801 or approval of
school.
Research and policy analysis of selected prob-
lems of trade union behavior.

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

**923. Seminar in Organizational
Behavior**
Spring. 4(4-0) Approval of school.
Research and policy on selected problems of
organizational behavior in labor and industrial
relations.

**Descriptions — Labor and Industrial Relations
of
Courses**

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

**501. Introduction to Veterinary
Medicine I**
Summer. 2(2-0) Admission to pro-
fessional veterinary program. Interdepartmental
with and administered by the Small Animal
Surgery and Medicine Department.
Species and breed identification, predisposition
for specific diseases, basic care and feeding,
restraint and handling of small domestic ani-
mals, unusual pet, and laboratory animals.

824. Laboratory Animal Medicine
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 quar-
ters, techniques of handling and treatment.

**825. Comparative Medical
Experimentation**
Winter. 2(1-3) Graduate status, B.S.
in biological sciences and approval of depart-
ment.
Critical analysis of animal experimentation re-
ported in biological journals related to the
students' interest with special emphasis on
effects of environment and host variables upon
validity of experimental results.

826. Laboratory Animal Pathology
Spring. 4(3-3) Graduate status and
approval of department. Interdepartmental with
the Department of Pathology.
Macro and microscopic studies on the diseases
of laboratory animals, with special emphasis on
naturally-occurring diseases which might inter-
fere with the interpretation of experimental
results.

LANDSCAPE ARCHITECTURE

See Urban Planning and Landscape Architecture

**LARGE ANIMAL SURGERY
AND MEDICINE LSM**

College of Veterinary Medicine

**412. Livestock Hygiene and Disease
Control**
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.

**IDC. The Impact of Animal Resource
Management Upon the World's
Developing Nations**
Winter. 3(4-0)
For course description, see Interdis-
ciplinary Courses.

**502. Introduction to Veterinary
Medicine II**
Spring. 4(3-3) Admission to the pro-
fessional veterinary program. Interdepartmental
with and administered by the Small Animal
Surgery and Medicine Department.
Anesthetic principles, agents, and techniques.
Basic surgical principles, including aseptic
technic, hemostasis, wound healing, suturing
and suturing materials. Fundamentals of radi-
ology.

**503. Introduction to Veterinary
Medicine III**
Spring. 4(3-3) Admission to profes-
sional veterinary program. Interdepartmental
with the Department of Small Animal Surgery
and Medicine.
Physical and systemic examination of the vari-
ous domestic and laboratory species. Common
restraint procedures, clinical skills, diagnostics
and an approach to clients are included.

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 pre-
vention, and herd health.

**521. Large Animal Surgery and
Medicine I**
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 sys-
tems. Demonstrations of laboratory experience
in basic clinical skills including restraint, diag-
nosis, medication, and surgery.

**522. Large Animal Surgery and
Medicine II**
Winter, Summer. 6(5-3) 521.
Occurrence, diagnosis and treatment of surgical
diseases of large animals. Discussion of dis-
eases of cardiovascular, hematopoietic, urinary,
nervous and integumentary systems. Demonstra-
tions and laboratory experience in large animal
surgery techniques.

**523. Large Animal Surgery and
Medicine III**
Fall, Spring. 7(7-0) 522.
Occurrence, diagnosis and treatment of surgical
and reproductive diseases. Includes radiology
and diseases of locomotion.

531. Meat Hygiene
Fall, Spring. 2(2-0) Ninth-term
Veterinary Medicine students.
Judging fitness of meat for human consumption
based on a knowledge of bacteriology, para-
sitology and pathology. Organization and oper-
ation of meat inspection programs. Field trip
required.

605. Large Animal Clinic II
Fall, Winter, Spring, Summer.
12(0-36) 505.
Advanced clinical instruction and experience in
diagnosis, patient care, medication, surgery, dis-
ease prevention, and herd health. Includes
handling of clinic patients under direct super-
vision of staff veterinarians and ambulatory
clinic.

**624. Large Animal Surgery and
Medicine IV**
Winter, Summer. 4(4-0) 523.
Etiology, pathogenesis, epidemiology, pathologi-
cal changes, differential diagnosis, prevention,
control and treatment of specific infectious dis-
eases of large animals.

**630. Veterinary Economics and
Practice Management**
Fall, Spring. 3(3-0) Veterinary medi-
cine students.
Management and business principles of veteri-
nary medical practice.

**809. Problems in Large Animal
Surgery**
Fall, Winter, Spring, Summer. Vari-
able credit.

**811. Problems in Large Animal
Medicine**
Fall, Winter, Spring, Summer. Vari-
able credit.

813. Seminar
Fall, Winter, Spring. 1 credit.

823. Special Surgery
Spring. 3(1-6) May re-enroll for a
maximum of 6 credits. Approval of department.
Surgical techniques and tissue reactions follow-
ing surgery in large animals.

899. Research
Fall, Winter, Spring, Summer. Vari-
able credit. May re-enroll for a maximum of
18 credits. Approval of department.
Research on thesis problems.

LATIN

See Romance Languages

**LINGUISTICS AND ORIENTAL
AND AFRICAN LANGUAGES**

College of Arts and Letters

Courses in CHINESE and JAPANESE on the 300
level or higher are normally conducted in the
language.

**Linguistics and Oriental and African
Language Courses LOA**

299. Special Projects
Fall, Winter, Spring, Summer. Variable
credit. May re-enroll for a maximum of 18
credits. Approval of department.
Work in areas outside regular course offerings.