

## Descriptions - Urban and Metropolitan Studies

of

### Courses

- 433. Urban Policy Analysis**  
(430.) Fall, Spring, Summer. 4(4-0)  
Juniors with background in policy and research methods.

The nature of contemporary American urban public policy. The institutions and processes that affect urban policy. Theory and methodology of public policy analysis relating to select urban issues.

- 441. Health and Environmental Quality**  
Winter. 3(3-0) Majors: Juniors and U D 202; others: Juniors or approval of department.  
Relationship between health and the urban physical and socio-cultural environment from the perspective of, e.g., law, psychology, politics, medicine and the community.

- 445. The Processes of Adjustment in the Urban Environment**  
Winter, Summer. 3(3-0) Juniors or approval of department.

Processes of individual psychological adjustment in general and especially as related to the urban environment. Particular emphasis on alienation, loneliness, crowding, personal space, behavior disorders, personal growth and development.

- 447. Aging in Urban America**  
Spring. 3(3-0) Juniors or approval of department.

Public policy issues concerning the aged. Political, economic and psycho-social aspects including evolving roles, housing and health needs, and minority issues. Investigation of programs for the aged. Potential for future.

- 461. Educational Segregation, Desegregation, Integration and Busing**  
Winter, Spring. 3(3-0) Majors: Juniors and U D 202; others: Juniors or approval of department.

Development and effects of segregation, desegregation, integration and busing for public school integration on minority and majority groups.

- 463. Economics of Urban Education**  
Spring. 3(3-0) EC 201 or EC 210. Interdepartmental with the Department of Economics.

Political economy of urban schools. Education as a commodity: efficient production and distribution, supply and demand for education, financing education, planning education to meet job needs and social mobility.

- 465. Perspectives on Housing Policies in Selected Industrialized Countries**  
Winter. 4(4-0) Juniors or approval of department. Interdepartmental with the departments of Human Environment and Design and Racial and Ethnic Studies. Administered by the Department of Racial and Ethnic Studies.

Urban housing policies in selected countries, such as Great Britain, Italy, Poland, Russia, Scandinavia, United States, and West Germany.

- 480. Independent Study**  
Fall, Winter, Spring, Summer. 2 to 4 credits. May reenroll for a maximum of 10 credits. Approval of department.  
Supervised individual study and projects.

- 485. Special Topics in Urban and Metropolitan Studies**  
Fall, Winter, Spring, Summer. 3 to 4 credits. May reenroll for a maximum of 8 credits. Juniors or U D 200, S S 221.

Contemporary issues and problems in the urban areas. The topics will vary from time to time.

- 490. Urban Program Planning and Evaluation**  
Winter, Spring. 5(4-1) UMS 290, UMS 291 or approval of department.

Basics of planning and evaluating programs, especially those of relevance to urban areas. Ethical, political, social implications of evaluation research; experience in using real and simulated data.

## URBAN DEVELOPMENT U D (COLLEGE OF)

- 200. Human Perspectives on Urbanization (S)**  
Fall, Winter, Spring. 4(4-0)

The changing role of the city in contemporary urban societies. The human problems in urban centers as well as strategies for solving those problems.

- 201. Historical Roots of Racism and Ethnocentrism (S)**  
Fall, Winter, Spring. 4(4-0)

Theories of racism and ethnocentrism, emphasizing a problem-solving approach in applying these theories to pluralism as it relates to Blacks, Spanish-Speaking and Indian Americans.

- 202. Minorities in American Cities (S)**  
Fall, Winter, Spring. 4(4-0) U D 200 and U D 201.

Changing socio-economic and political conditions of minority groups in American cities associated with urbanization. Special emphasis will be given to Blacks, Spanish-Speaking, and Indian Americans.

- 498. Pre-Field Experience Seminar**  
Fall, Winter, Spring, Summer. 2 credits. Approval of department.

Students work with instructor in planning their field experiences, developing objectives, interviewing, and over-all interpersonal skills necessary for the world of work.

- 499. Field Experience**  
Fall, Winter, Spring, Summer. 3 to 24 credits. May reenroll for a maximum of 24 credits. U D 498 or approval of department.

Provide technical and employment skill development for students participating in field work settings as they work with an agency, organization or research project.

## URBAN PLANNING AND LANDSCAPE ARCHITECTURE

### College of Social Science

#### Urban Planning

U P

- 203. Design of Cities**  
(103.) Winter. 3(3-0)

Examination and evaluation of the urban environment, with emphasis on the visual characteristics and their influences upon human perceptions and activities. Contemporary design considerations.

- 231. Evolution of Urban Communities (S)**  
Fall. 4(4-0)

Historic interrelationships of various cultural influences and theoretical concepts on contemporary patterns, trends and problems of urban development and renewal.

- 233. The Role of Planning in Urban Development**  
Fall. 3(3-0)

Contemporary formal and informal roles of urban planners in various levels of government and private institutions. Influence exerted upon urban and regional development by governmental and private organizations.

- 243. Planning Communication**  
Fall. 4(2-4)

Development and presentation of planning materials emphasizing the coordination of speaking, writing, and graphic skills.

- 311. Site Planning and Construction I**  
Winter. 5(3-6)

Elementary problems emphasizing physical development of specific sites involving population densities, architectural forms, grading, public utilities, traffic and parking, and functioning street patterns.

- 341. Urban Planning Methods of Analysis**  
Fall. 3(3-0) Juniors in urban planning or approval of school.

Types of urban planning variables and methods of application to planning studies. Study design for basic planning investigations, and technique of investigation.

- 342. Research Methods in Planning**  
Winter. 4(4-0) U P 341.

Methods for investigation and analysis of urban phenomena; models, data and techniques used in mathematical, graphical and logical analysis.

- 351. Spatial Design**  
Spring. 4(2-4) U P 233, U P 243.

Urban community functional physical elements at various scales. Laboratory work on planning problems related to human activity flow, terrain and structures, including land subdivision design.

- 352. Urban Design Problems**  
Winter. 4(0-8) U P 351.

Application of the physical design processes from the scale of individual element groupings to complete community units in a two and three dimensional context.

- 362. Fiscal Planning**  
*Winter of even-numbered years. 3(3-0)  
U P 233 or U P 400.*  
Analysis of costs associated with plan implementation, redevelopment, and preservation. Relationship between the budgeting process and the fiscal implications of planning.
- 363. Comprehensive Planning Process**  
*Spring. 3(3-0) U P 233.*  
Theory and application of coordinated planning for urban development, including policies and development plan formulation, programming, evaluation, review and revision of policies and plans.
- 400. Urban Development and Planning**  
*Fall, Spring, Summer. 3(3-0) Credit may not be earned in U P 233 and U P 400. Juniors. Not open to majors in Urban Planning.*  
Planning concepts and powers used to guide contemporary urban growth and alleviate common problems. Major topics will be the planning commission, comprehensive plan, zoning, land development, parks, school location.
- 431. International Housing Developments**  
*Fall. 3(3-0)*  
Importance and types of governmental housing programs in reference to urban design, financial policies and land issues. Projects and programs selected primarily from underdeveloped countries.
- 433. Human Shelter**  
*Spring. 3(3-0)*  
Interdisciplinary approach to shelter; role of shelter in the community, housing as a cultural, economic, and institutional force; future developments and needs.
- 450. Social Planning**  
*Winter. 3(2-2) U P 363, U P 400 or graduate students.*  
Definition of Social Planning. Techniques for identifying problems of resource access, and survey of attributes and skills necessary to improve delivery and participation. Field work with neighborhood organizations and planning agencies. Field trips required.
- 460. Planning Practice**  
*Winter. 3(3-0) Senior urban planning major or U P 400.*  
Administration of urban planning in relationship to governmental operations, other professions and the public. Emphasis on staff functions and responsibilities, consultant practice, and professional ethics.
- 461A. Comprehensive Planning**  
*Fall. 4(0-8) U P 363.*  
Collection, analysis and synthesis of planning information for an established urban area and region. Formulation of comprehensive physical development policies and plans, and implementation programs.
- 461B. Comprehensive Planning**  
*Winter. 4(0-8) U P 461A.*  
Continuation of U P 461A.
- 461C. Comprehensive Planning**  
*Spring. 4(0-8) U P 461B, U P 471.*  
Continuation of U P 461B.
- 471. Ecological Basis for Planning**  
*Fall. 3(3-0) Seniors.*  
Ecological principles, relationships and interaction between natural and man-made elements of the environment; critical review of environmental planning projects at local, state and national levels.
- 472. Urban Development Regulation**  
*Winter. 3(3-0) Seniors.*  
Public and private regulations basic to regulations influencing urban development; state enabling legislation and regulations, local ordinances, especially for zoning and subdivision regulations.
- 473. Urban Development Programs**  
*Spring. 3(2-2) U P 472.*  
Current federal and state programs which affect local development and renewal. The grants process, including requirements, proposal preparation.
- 480. Historic Preservation**  
*Winter. 3(3-0) Seniors, approval of department. Interdepartmental with and administered by the Department of Art.*  
History and philosophy of historic preservation; the new attitude toward preservation--historic districts and neighborhoods--adaptive use, documentation and tools for preservation; a project based on field research.
- 481. Historic Preservation Planning**  
*Spring. 3(3-0) Juniors. Interdepartmental with the Department of Art.*  
Overview and analysis of the role of historic preservation in the urban planning process. Focus upon current and emerging techniques, programs, and approaches needed to create effective preservation efforts.
- 489. Internship in Urban Planning**  
*Fall, Winter, Spring, Summer. 2(0-8) or 3(0-12) or 4(0-16) May reenroll for a maximum of 8 credits. Senior majors; approval of school.*  
Individual experience in approved agencies and departments in the Lansing area.
- 490. Independent Studies in Urban Planning**  
*Fall, Winter, Spring, Summer. 2 credits. May reenroll for a maximum of 4 credits. Senior majors, approval of school.*
- 800. Special Problems**  
*Fall, Winter, Spring, Summer. 2 to 6 credits. May reenroll for maximum of 6 credits. Approval of school.*
- 806. Planning for Man and the Environment**  
*Spring. 3(3-0)*  
Multi-dimensional environments of human settlements, normative characteristics, relationships to man, functional and dysfunctional situation, problems of comprehension, description, normative design criteria, contemporary issues, and relationships to planning.
- 808. Background of Urban Development Planning**  
*Fall. 3(3-0)*  
American urban development from 1620 to the present, including shifts in technology and social forces that influenced development patterns. Problems faced by the professional planner are emphasized.
- 814. Research Methods in Urban Planning: Basic Quantitative Techniques**  
*Winter. 3(3-0) STT 201 or STT 421 or approval of school.*  
Basic quantitative techniques used in planning, including statistics, linear methods, and network methods. Introduction to use of the computer. Intended for students with limited background in mathematics.
- 815. Research Methods in Urban Planning: Applications to Planning Problems**  
*Spring. 3(3-0) U P 814.*  
Applied techniques used in planning research. Analysis and forecasting of urban population, economic activity, and land use. Analysis of transportation and other community facilities.
- 816. The Planning Process**  
*Fall. 3(3-0)*  
Basic research and survey methods, and procedures used by the professional planner in developing a comprehensive plan.
- 818. Planning Theory: Theory of the Planning Process**  
*Winter. 3(3-0) Approval of school.*  
Influential schools of thought, planning as a decision-making process, methods for defining goals in public and private programs, and the role of planning in formulating public policies.
- 819. Planning Theory: Theories of Urban Forms and Structure**  
*Spring. 3(3-0) Approval of school.*  
Idealized urban forms, theories and models in urban form as it relates to function and location of urban activities.
- 824. Legal Bases for Planning**  
*Winter. 3(3-0) U P 473; approval of school.*  
Analysis of legislation pertinent to planning, emphasis upon legislation for city and regional planning bodies and creation of special authorities with general planning responsibilities.
- 826. Planning Program Implementation**  
*Fall. 3(3-0) Completion of the first year MUP Core Program or approval of school.*  
An analysis of various techniques utilized by professional planners in effectuating plans and programs. Governmental roles in land use control, fiscal matters, taxation policies, and federal and state programs are stressed.
- 828. Planning Presentation Techniques**  
*Fall. 2(1-2) or 3(1-4) Students with basic graphic skills should enroll for 2 credits. Approval of school.*  
Communication skills utilized by planners to present policy proposals to governmental decision makers and citizens. Speaking, writing, and small group leadership is integrated with essential planning graphic skills.
- 834. Planning Practicum I**  
*Fall. 3(0-6) Completion of the first year MUP Core Program or approval of school.*  
Field experience in the collection, analysis, and synthesis of information by individual students or student groups, to develop solutions to specific urban problems.
- 835. Planning Practicum II**  
*Winter. 3(0-6) U P 834.*  
Continuation of U P 834.

## Descriptions – Urban Planning and Landscape Architecture

of

### Courses

#### 836. Introduction to Design

Winter. 4(0-8) U P 824 or approval of school.

Studio course emphasizing the role of planning in shaping the process of urban growth and development, and the role of physical form and structure in influencing man's cultural patterns.

#### 840. Administration and Professional Practice

(832.) Winter of even-numbered years. 3(3-0) Majors or approval of school.

Expanding scope of urban planning and implications for administration; organizations for administration; relationship to governmental operations, to other professions, to public. Staff functions and responsibilities; administrative instruments; practice of the consultant; professional ethics.

#### 842. An International Comparative Study of Urban Planning

Winter of odd-numbered years. 3(3-0)

Urban growth patterns; types, roles and design theory of new cities; techniques and organization for urban growth; selection of subject areas will be made according to the class composition.

#### 850. Housing Program Planning

Spring of even-numbered years. 5(2-6) Approval of school.

Regulation, stimulation, salvage, and replacement of housing through public policy and administrative procedures. Increasing role of private initiative as partner to public action through conservation, rehabilitation, and redevelopment practices. Evaluation of trends and needs; analysis of case studies.

#### 854. Urban Transportation Planning

Spring of even-numbered years. 5(2-6) Approval of school.

Examination of travel, land use, and transportation networks. Transportation planning data, processes, and plans, and their implication on theory and practice of metropolitan planning. Field work in current transportation issues.

#### 858. Urban Land Policy and Regulation

Spring of even-numbered years. 5(2-6) Approval of school.

Public land use policy and legislation, and implementing governmental actions. Land use controls exercised by several levels of government. Field work in development and application of land use control instruments.

#### 862. Development Planning and Administration

Spring of odd-numbered years. 5(2-6) Approval of school.

Measurement of urban obsolescence and deterioration with accompanying analysis of symptoms and causes for a selected community. Comprehensive plan for urban renewal and development objectives will be developed and one or more project areas will be studied and processed in accordance with most effective techniques and administrative procedures. Emphasis to be placed on the objective of unified, revitalized community development.

#### 866. Urban Spatial Design

Spring of odd-numbered years. 5(0-10) Approval of school.

Design projects for functions relating to selected community activities. Commercial, industrial, residential, institutional, and transportation land uses will be utilized for design study in appropriate dimensions.

#### 870. Regional and State Planning

Spring of odd-numbered years. 5(2-6) Approval of school.

Selected problems of metropolitan functions of present and future significance. Intra and inter-regional relationships of primary functional importance; such as, open spaces, economic development, community patterns, transportation, and associated land uses.

#### 874. Health Issues and the Urban Planner

Spring of odd-numbered years. 5(2-6) Approval of school.

Relationships between the practices and concerns of urban planners and the health of individuals.

#### 889. Internship in Urban Planning

Fall, Winter, Spring, Summer. 2(0-8) or 3(0-12) or 4(0-16) May reenroll for a maximum of 8 credits. Graduate students in Urban Planning; approval of school.

Individual experience in approved agencies and departments in the Lansing area.

#### 897. Special Topics in Urban Planning

Fall. 2(2-0) May reenroll for a maximum of 6 credits if different topic is taken. Issues pertaining to urban planning as they arise out of current research, planning practice or the interplay of national issues and urban problems.

#### 898. Master's Research

Fall, Winter, Spring, Summer. 2 or 3 credits. Approval of school.

The research component of the Plan B option for the MUP degree.

#### 899. Master's Thesis Research

Fall, Winter, Spring, Summer. Variable credit. May reenroll for a maximum of 15 credits. Approval of school.

### Landscape Architecture

LA

#### 100. Environmental Perception

Fall. 3(3-0)

Environmental design concepts, orientation to landscape architecture, including environmental inventories, objectives and aspects of public and private professional practice, and scope and types of landscape development projects.

#### 110. Fundamentals of Design

Fall, Spring. 4(2-4)

Analysis and application of elements and principles of design in two and three dimensional expressions to abstract and spatial design compositions for environmental requirements.

#### 120. Graphic Communication

Fall. 4(1-6)

Basic technical skills for graphic communications, mechanical and free-hand drafting and lettering, sketching, perspective drawings, use of graphic symbols, dimensioning, rendering media and techniques, and reproduction methods.

#### 201. Site Planning

Winter. 3(3-0)

Elements, principles and concepts for site development, including use area organization, orientation and siting of buildings, circulation and parking systems, spatial definitions, and detail design considerations.

#### 230. Landform Design

Spring. 4(2-4) Provisional majors.

Elements and principles of site grading, relief visualization, contour interpretation, land form units, surface drainage, slope calculations, and earthwork quality determinations.

#### 240. Landscape Design Methods

Winter. 4(1-6) Provisional majors; LA 120.

Considerations and techniques of landscape design, including natural, cultural and perceptual inventories, site and program analyses, development of design concepts, with verbal and graphic expressions. Field trips required.

#### 250. Planting Design

Spring. 4(2-4) Provisional majors.

Principles of and procedures for arrangement of plant compositions, emphasizing the perceptual characteristics of plants by means of models, sketches and plans, and potential applications to landscape developments. Field trips required.

#### 260. Architectural Design

Winter. 4(2-4) Provisional majors.

Elements and principles of architectural design including aesthetic qualities of buildings, physical and visual properties of materials, structural elements and systems; and siting of buildings.

#### 321. Advanced Graphic Communication

Spring. 4(1-6) Junior majors.

Development of proficiency in landscape delineation and rendering techniques, including specialized media and formats for visual presentations of design concepts, analyses and perceptions.

#### 332. Site Engineering

(432.) Fall. 3(2-2) Majors.

Principles and procedures for design of site development systems, horizontal and vertical road alignments, storm and sanitary sewers, site utilities and computer applications for preparation of site construction drawings.

#### 333. Site Construction

Fall. 4(2-4) Junior majors.

Materials and methods for construction of landscape developments, including details, layouts, construction drawings, specifications and cost estimating procedures.

#### 341. Basic Site Design

(241.) Fall. 4(1-6) Junior majors.

Applications of site planning theory and landscape design methods to representative site development projects involving buildings, use areas, land, water and plant forms, with verbal and graphic expressions. Field trips required.

#### 346. Project Site Design

Winter. 4(1-6) LA 341.

Application of site planning principles and landscape design methods to representative site development projects, with emphasis on housing and recreational requirements and opportunities.

#### 348. Public Site Design

Spring. 4(1-6) LA 346.

Application of site planning principles and landscape design methods to comprehensive site development projects, with emphasis on public and institutional requirements and opportunities.

- 353. Planting Plans**  
Winter. 4(2-4) Junior majors.  
Principles and procedures for selection and arrangement of plant materials for specific uses, including climate modification, spatial definition, circulation control, and soil and water conservation, as expressed by planting plans and specifications.
- 370. History of Environmental Development**  
Fall. 3(2-2)  
Significant natural conditions and cultural events which have influenced man's attempts to organize and design his physical environment, as expressed in historic landscape development styles and movements.
- 390. Landscape Architecture Field Studies**  
Fall, Winter, Spring. 2 to 4 credits.  
May reenroll for a maximum of 8 credits. Approval of school.  
Field trips to contemporary and historical site and regional zones within or outside the United States. Prior and post study required.
- 401. Landscape Management**  
Winter. 3(3-0)  
Concepts and policies affecting natural resource conservation, selection and location of significant human use areas, landscape development considerations and their environmental implications.
- 403. Urban Design Theory**  
Winter. 3(3-0)  
Concepts and procedures for the organization, design and development of public and private urban forms and spaces, including survey of urban elements, cultural, ecological and aesthetic considerations, and interdisciplinary collaboration.
- 423. Professional Graphics**  
Spring. 4(1-6) L A 321.  
Applications of advanced sketching, perspective and rendering techniques for typical professional presentations, including prints, reproductions, photography and multi-media audiovisual communications.
- 437. Design Implementation**  
Winter. 4(1-6) Senior majors, L A 480 concurrently.  
Preparation of a complete package of contract documents for a representative site development project, including typical construction drawings, specifications and cost estimates.
- 442. Comprehensive Landscape Design**  
Spring. 6(1-10) L A senior major.  
Applications of regional and urban design theory and landscape design methods to representative large scale regional and urban landscape development projects.
- 471. History of Landscape Architecture**  
Spring. 3(2-2)  
Environmental design concepts and projects from 1850 to the present time, with emphasis on the development of the profession and practice of landscape architecture in the United States.
- 480. Professional Practice**  
Winter. 3(2-2) Senior majors, L A 437 concurrently.  
Principles and procedures of professional landscape architectural practice, including ethics, client relations, registration, inter-professional collaboration and organization of operations for design implementation. Field trips required.
- 483. Landscape Architecture Seminar**  
Spring. 3(2-2) Senior majors.  
Research presentation and discussion of significant current issues, trends, events and opportunities relating to contemporary theories and practices of landscape architecture.
- 489. Landscape Architecture Internship**  
Fall, Winter, Spring, Summer. 2(0-8) or 3(0-12) or 4(0-16) May reenroll for a maximum of 8 credits. Juniors, approval of school.  
Supervised experience in approved public agencies and professional offices. Bi-weekly conferences.
- 490. Special Problems**  
Fall, Winter, Spring, Summer. 2 to 5 credits. May reenroll for a maximum of 12 credits. Approval of school.  
Investigation, for advanced undergraduate students in landscape architecture, developed from special interest areas.
- 499. Landscape Architecture Design Thesis**  
Fall. 4(0-8) L A Senior major.  
Demonstration of analytical, creative and technical competencies in the development of methods and/or concepts leading to design solutions for contemporary landscape architecture problems.
- 531. Animal Behavior**  
(500E) Spring. 3(3-0) Third-term Veterinary Medicine students.  
Emphasis on behavior of animals relating to disease prevention and treatment. Lectures, discussions and demonstrations on veterinary ethology including animal communications, reproduction, restraint, handling, housing and feeding habits.
- 540. Metabolic Diseases and Endocrinology**  
(503.) Winter. 2(2-0) Fifth-term Veterinary Medicine students.  
Biochemical and physiological basis of metabolic and endocrine diseases of animals including diagnosis, treatment and management.
- 542. Principles of Radiology**  
Fall. 2(2-0) Fourth-term Veterinary Medicine students.  
Fundamentals of veterinary radiography. Normal radiographic anatomy. Principles of radiographic interpretation. Radiation safety.
- 544. Veterinary Epidemiology**  
Fall. 4(4-0) Fourth-term Veterinary Medicine students.  
Meaning and relevancy of biostatistics in veterinary medicine. Descriptive and inferential statistics. Study design and critical literature review. Disease determinants, ecology, distribution and populations at risk. Analytic-clinical investigative epidemiology.
- 550. Preventive Veterinary Medicine and Public Health**  
(520.) Winter. 4(4-0) Fifth-term Veterinary Medicine students.  
Public health aspects of veterinary medicine. Preventive and regulatory medicine including meat and milk hygiene, water supply and treatment, solid and liquid waste treatment and disposal and zoonosis.
- 560. Urinary System**  
(507.) Spring. 3(3-0) Sixth-term Veterinary Medicine students.  
Normal and abnormal structure and function, diagnostic methods, and the medical and surgical manipulation of the urinary system.
- 561. Core of Medicine Laboratories I**  
Spring. 2(0-6) Sixth-term Veterinary Medicine students.  
Classification diagnosis and treatment of diseases of the urinary, hematopoietic, nervous, integumentary and visual systems of animals.
- 562. Hematopoietic System**  
(509.) Spring. 2(2-0) Sixth-term Veterinary Medicine students.  
Normal structure and function of the hematopoietic system and pathophysiologic effects of hematopoietic diseases. Clinical manifestations, laboratory evaluation and medical management.
- 563. Visual System**  
(532.) Spring. 2(2-0) Sixth-term Veterinary Medicine students.  
Methods of examination, diagnosis, and treatment of ocular diseases.
- 564. Survey of Infectious Agents**  
(510.) Spring. 4(4-0) Sixth-term Veterinary Medicine students.  
Host-microorganism relationship in diseases of animals; laboratory diagnosis, treatment, control, and public health significance.

**VETERINARY MEDICINE V M  
(COLLEGE OF)**

- 511. Introduction to Veterinary Medicine I**  
(V M 500A.) Fall. 2(2-0) First-term Veterinary Medicine students.  
Species and breed identification, predisposition for specific diseases, basic care and feeding, restraint and handling of small domestic animals, unusual pets, and laboratory animals.
- 517. Perspectives in Veterinary Medicine**  
Fall. 1(1-0) First-term Veterinary Medicine students.  
Ethical principles, historical background and organization of the veterinary profession.
- 521. Introduction to Veterinary Medicine II**  
(500B.) Spring. 4(3-4) Third-term Veterinary Medicine students.  
Restraint, physical examination and diagnostic procedures in food animals and horses. Fundamentals of equine conformation, gaits, shoeing and routine medical care.