### Descriptions—Urban Planning of Courses

**Veterinary Medicine (VM)**

**College of Veterinary Medicine**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>410</td>
<td>Veterinary Technology Clerkship in Anesthesiology</td>
<td>3</td>
<td>P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in anesthesiology.</td>
<td>QA: VM 305</td>
</tr>
<tr>
<td>411</td>
<td>Veterinary Technology Clerkship in Radiology</td>
<td>3</td>
<td>P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in radiology.</td>
<td>QA: VM 306</td>
</tr>
<tr>
<td>450</td>
<td>Veterinary Technology Clerkship in Emergency Medicine</td>
<td>3</td>
<td>P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in emergency medicine.</td>
<td>QA: VM 310</td>
</tr>
<tr>
<td>451</td>
<td>Veterinary Technology Clerkship in Cardiology</td>
<td>3</td>
<td>P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in cardiology.</td>
<td>QA: VM 311</td>
</tr>
<tr>
<td>452</td>
<td>Veterinary Technology Clerkship in Neurology</td>
<td>3</td>
<td>P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in neurology.</td>
<td>QA: VM 312</td>
</tr>
<tr>
<td>453</td>
<td>Veterinary Technology Clerkship in Oncology</td>
<td>3</td>
<td>P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in oncology.</td>
<td>QA: VM 313</td>
</tr>
<tr>
<td>454</td>
<td>Veterinary Technology Clerkship in Critical Care</td>
<td>3</td>
<td>P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in critical care.</td>
<td>QA: VM 314</td>
</tr>
<tr>
<td>460</td>
<td>Veterinary Technology Clerkship in Equine Anesthesiology</td>
<td>3</td>
<td>P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in equine anesthesiology.</td>
<td>QA: VM 315</td>
</tr>
<tr>
<td>461</td>
<td>Veterinary Technology Clerkship in Equine Field Service</td>
<td>3</td>
<td>P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in equine field service.</td>
<td>QA: VM 316</td>
</tr>
<tr>
<td>470</td>
<td>Veterinary Technology Clerkship in Food Animal Medicine</td>
<td>3</td>
<td>P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in food animal medicine.</td>
<td>QA: VM 318</td>
</tr>
<tr>
<td>471</td>
<td>Veterinary Technology Clerkship in Production Medicine</td>
<td>3</td>
<td>P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in production medicine.</td>
<td>QA: VM 319</td>
</tr>
<tr>
<td>472</td>
<td>Veterinary Technology Clerkship in Food Animal Anesthesiology</td>
<td>3</td>
<td>P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in food animal anesthesiology.</td>
<td>QA: VM 320</td>
</tr>
</tbody>
</table>
540. **Metabolic Diseases**  
Fall. (1-0)  
R: Open only to second year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in VM 556. Biochemical and physiological basis of metabolic and endocrine diseases of animals. Diagnosis, treatment, and management.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1993.

541. **Veterinary Perspectives III**  
Spring, 2/2-0  
P: Completion of semester 2 of the graduate-professional program in the College of Veterinary Medicine. R: Not open to students with credit in VM 562. Concepts and principles of veterinary practice management.

542. **Veterinary Integrative Problem Solving IV**  
Spring, 3/2-3  
P: Completion of semester 2 of the graduate-professional program in the College of Veterinary Medicine. Integration of subject material from concurrent and previous courses.

543. **Cardiovascular Diseases**  
Spring, 2/2-0  
P: Completion of semester 2 of the graduate-professional program in the College of Veterinary Medicine. Cardiovascular diseases of domestic animals. Pathogenesis, diagnosis, and treatment.  
QA: VM 572

544. **Veterinary Public Health**  
Spring, 2/2-0  
P: Completion of semester 2 of the graduate-professional program in the College of Veterinary Medicine. Veterinary environmental and occupational public health. Milk and meat hygiene. Control of zoonotic diseases.

545. **Principles of Anesthesia and Surgery**  
Spring, 4/3-2  
P: Completion of semester 2 of the graduate-professional program in the College of Veterinary Medicine. R: Not open to students with credit in VM 570 or VM 578. Administering anesthetic agents. Fundamentals of surgery: sterile technique, tissue handling, suture techniques, postoperative care.

546. **Musculoskeletal Diseases**  
Spring, 5/5-0  
P: Completion of semester 2 of the graduate-professional program in the College of Veterinary Medicine. R: Not open to students with credit in VM 582 or VM 590. Musculoskeletal diseases of domestic animals. Pathogenesis, diagnosis, and treatment. 
QA: VM 582, VM 592

547. **Respiratory Diseases**  
Spring, 2/2-0  
P: Completion of semester 2 of the graduate-professional program in the College of Veterinary Medicine. R: Not open to students with credit in VM 571. Respiratory diseases of domestic animals. Pathogenesis, diagnosis, and treatment.

549. **Veterinary Epidemiology**  
R: Open only to second year graduate-professional students in College of Veterinary Medicine. Epidemiological, descriptive and inferential statistics. Study design and critical literature review. Disease determinants, ecology, distribution and populations at risk. Analytical-clinical investigation.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1993.  
QA: VM 544

550. **Preventive Veterinary Medicine and Public Health**  
Spring, 5/3-0  
P: Open only to second year graduate-professional students in College of Veterinary Medicine. Preventive and regulatory medicine: meat and milk hygiene, water supply and treatment, solid and liquid waste treatment and disposal. Zoonosis.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1993.  
QA: VM 550

552. **Veterinary Integrative Problem Solving V**  
Fall, 3/2-3  
P: Completion of semester 4 of the graduate-professional program in the College of Veterinary Medicine. Integration of subject material from concurrent and previous semester courses.

553. **Theriogenology and Urinary Diseases**  
Fall, 5/5-0  
P: Completion of semester 4 of the graduate-professional program in the College of Veterinary Medicine. R: Not open to students with credit in VM 560 or VM 565. Urinary diseases of domestic animals. Pathogenesis, diagnosis, and treatment.  
QA: VM 560, VM 563

554. **Hematological, Oncological and Dermatological Diseases**  
Fall, 4/3-0  
P: Completion of semester 4 of the graduate-professional program in the College of Veterinary Medicine. R: Not open to students with credit in VM 564 or VM 565. Hematological, oncological and dermatological diseases of domestic animals. Pathogenesis, clinical presentation, diagnosis and treatment.  
QA: VM 562, VM 563

555. **Neurological and Ophthalmological Diseases**  
Fall, 3/3-0  
P: Completion of semester 4 of the graduate-professional program in the College of Veterinary Medicine. R: Not open to students with credit in VM 560 or VM 565. Neurological and ophthalmological diseases of domestic animals. Pathogenesis, diagnosis, and treatment.  
QA: VM 563, VM 565

556. **Digestive, Nutritional and Endocrinological Diseases**  
Fall, 5/5-0  
P: Completion of semester 4 of the graduate-professional program in the College of Veterinary Medicine. R: Not open to students with credit in VM 570 or VM 571. Digestive, metabolic, and endocrinological diseases of domestic animals. Pathogenesis, diagnosis, and treatment.  
QA: VM 562, VM 563

557. **Operative Surgery**  
Fall, 3/1-3  
P: Completion of semester 4 of the graduate-professional program in the College of Veterinary Medicine. R: Not open to students with credit in VM 570 or VM 578 or VM 596. Soft tissue and orthopedic surgery of domestic animals: preoperative evaluation, surgery, and postoperative care.  
QA: VM 578, VM 588

560. **Urinary System**  
Fall, 3/3-0  
P: Open only to second year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in VM 554. Normal and abnormal structure and function, diagnostic methods, and medical and surgical manipulation of the urinary system.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1993.  
QA: VM 560

561. **Core of Medicine Laboratories I**  
Spring, 1/0-3  
P: Open only to second year graduate-professional students in College of Veterinary Medicine. Classification, diagnosis and treatment of diseases of the urinary, hematopoietic, nervous, integumentary, and visual systems of animals.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1993.  
QA: VM 561

562. **Hematopoietic System**  
Spring, 1/1-0  
P: Completion of the first year of the graduate-professional program in the College of Veterinary Medicine. Normal structure and function of the hematopoietic system and pathophysiological effects of hematopoietic diseases. Clinical manifestations, laboratory evaluation and medical management.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1993.  
QA: VM 562

563. **Visual System**  
Spring, 1/1-0  
P: Open only to second year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in VM 554. Methods of examination, diagnosis, and treatment of ocular diseases.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1993.  
QA: VM 563

564. **Survey of Infectious Agents**  
Spring, 2/2-0  
P: Open only to second year graduate-professional students in College of Veterinary Medicine. Host-microorganism relationship in diseases of animals. Laboratory diagnosis, treatment, control. Public health significance.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1993.  
QA: VM 564

565. **Urinary System**  
Spring, 2/2-0  
P: Open only to second year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in VM 554. Diseases of the integumentary system of animals. Laboratory examinations, interpretation of pathological features, diagnosis, and treatment.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1993.  
QA: VM 564

567. **Principles of Anesthesia**  
Fall, 1/1-0  
P: Open only to second year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in VM 554. Fundamentals of veterinary radiology. Normal radiographic anatomy. Radiographic interpretation. Radiation safety.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1993.  
QA: VM 542

570. **Integumentary System**  
Spring, 2/2-0  
P: Open only to second year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in VM 554. Diseases of the integumentary system of animals. Laboratory examination, interpretation of pathological features, diagnosis, and treatment.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1993.  
QA: VM 570

QA: VM 542
572. Cardiovascular System  
Fall. 3(2-0)  
R: Open only to third year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in VM 546.  
Pathogenesis, diagnosis, and management of cardiovascular diseases in animals. Anatomical, physiological, and pathological principles for medical and surgical treatment. 
Temporary approval effective from Fall Semester 1992 through Spring Semester 1994.  
QA: VM 572

574. Respiratory System  
Spring. 2(0-6)  
R: Open only to third year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in VM 547.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1994.  
QA: VM 574

576. Digestive System I  
Fall. 3(3-0)  
R: Open only to third year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in VM 548 or VM 557.  
Pathogenesis, diagnosis, and treatment of diseases of the gastrointestinal tract and digestive organs of small animals.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1994.  
QA: VM 576

578. Principles of Surgery I  
Fall. 2(1-3)  
R: Open only to third year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in VM 549.  
Pathogenesis, diagnosis, and management of diseases of the alimentary tract and digestive organs of small animals.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1994.  
QA: VM 578

580. Theriogenology  
Fall. 4(3-0)  
R: Open only to third year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in VM 542 or VM 557.  
Reproductive function and diseases of animals' genital structure and function and endocrine control. Examination, diagnosis, and treatment of the mammary gland and reproductive tract.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1994.  
QA: VM 580

581. Core of Medicine Laboratories II  
Fall. 2(0-6)  
R: Open only to third year graduate-professional students in College of Veterinary Medicine.  
Diagnosis and treatment of diseases of the reproductive, digestive, and musculoskeletal systems.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1994.  
QA: VM 581, VM 577

582. Musculoskeletal System I  
Spring. 2(2-0)  
R: Open only to third year graduate-professional students in College of Veterinary Medicine.  
Diagnosis and treatment of musculoskeletal diseases of animals. Pathological changes, radiological techniques, and interpretation of radiographic.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1994.  
QA: VM 582

586. Digestive System II  
R: Open only to third year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in VM 558.  
Pathogenesis, diagnosis, and treatment of diseases of the alimentary tract and digestive organs of food animals and horses.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1994.  
QA: VM 586

588. Principles of Surgery II  
Fall. 2(1-3)  
R: Open only to third year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in VM 557.  
Fundamental large animal surgery. Surgical techniques and management of animals before, during, and after surgery.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1994.  
QA: VM 588

590. Client Communication and Jurisprudence  
Spring. 1(1-0)  
R: Open only to third year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in VM 559.  
Communication and interviewing skills for effective client relations. Communication aspects of medical records and their use in medical problem solving. Legal responsibilities of the veterinary medical profession.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1994.  
QA: VM 590

592. Musculoskeletal System II  
Spring. 3(3-0)  
R: Open only to third year graduate-professional students in College of Veterinary Medicine. Not open to students with credit in VM 556.  
Pathogenesis, diagnosis, and treatment of musculoskeletal diseases of large animals. Anatomical relationships of normal and abnormal function. Surgical techniques applicable to the equine and ruminant.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1994.  
QA: VM 592

596. Diseases of Bones and Joints  
Spring. 2(2-0)  
R: Open only to third year graduate-professional students in College of Veterinary Medicine.  
Diagnosis, prognosis, and treatment of abnormalities involving bones and joints.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1994.  
QA: VM 596

602. Veterinary Practice Management  
Spring. 1(1-0)  
R: Completion of the second year of the program in the College of Veterinary Medicine.  
Establishment of a veterinary practice.  
Temporary approval effective from Fall Semester 1992 through Spring Semester 1994.  
QA: VM 602

610. Veterinary Externship  
Fall, Spring. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course.  
R: Completion of 5 semesters of the graduate professional program in the College of Veterinary Medicine. Clinical or research experience in an off-campus setting.  
Fall. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course.  
R: Open only to graduate-professional students in the College of Veterinary Medicine. Individual study directed by a faculty member on an experiential, theoretical, or applied problem. May involve off-campus experience in a preceptorial mode.

WOMEN'S STUDIES

Women's Studies Program  
College of Arts and Letters  
Course of College of Social Science

201. Introduction to Women's Studies  
Fall, Spring. 4(0-4)  
Diversity of women's situations in social, cultural, historical and international contexts. Focus on women as victims of oppression and as agents. Concepts to feminist thought: gender systems, patriarchy.  
WS: 201

202. Introduction to Contemporary Feminist Theories  
Fall. 3(0-3)  
P: WS 201 or approval of program. R: Not open to freshmen. Contemporary feminist theories of patriarchy, oppression, liberation, sexuality, and the meaning of women. Influences of liberalism, Marxism, Freud. Intersections of sex, race, class, and ethnicity. Theories by women of color.  
WS: 201

203. Bibliographic Methods for Women's Studies Research  
Fall of even-numbered years, 3(3-0)  
WP: WS 201 QA: WS 300

301. Sexual Violence Against Women and Children: Theory and Response  
Spring. 3(0)  
WP: WS 201 QA: WS 300

302. Jewish Women's Experiences and Writings  
Spring. 3(0)  
WP: WS 201 QA: WS 300