

**Descriptions—Theatre
of
Courses**

490. Independent Study

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course.

R: Not open to freshmen and sophomores. Approval of department.

Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings.

QA: THR 499A

492. Senior Seminar

Spring. 2(2-0)

P: THR 341, 15 credits in Theatre. R: Open only to seniors in Theatre.

Contemporary theatre, dance, and performance theory and practice.

494. Performance Tour

Fall, Spring. 3(0-6) A student may earn a maximum of 6 credits in all enrollments for this course.

R: Acceptance into cast of touring production.

Rehearsal for and participation in the various departmental touring productions.

QA: THR 489

800. Theatre Research Methodology

Fall. 3(3-0)

R: Open only to graduate students in Theatre.

Research techniques appropriate to theatre. Library resources.

QA: THR 800

801. Practicum in Theatre Arts: Acting

Fall, Spring. 3(0-8) A student may earn a maximum of 18 credits in all enrollments for this course.

R: Open only to graduate students in Theatre.

Acting skills and techniques, including improvisation and Stanislavskian techniques.

QA: THR 803A

802. Stage Voice

Fall. 2(0-4) A student may earn a maximum of 6 credits in all enrollments for this course.

R: Open only to graduate students in Theatre.

Principles and exercises for developing the speaking voice. Application to selected dramatic texts.

QA: THR 802

803. Acting Theory

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

R: Open only to graduate students in Theatre.

Theories, processes, techniques, and styles of acting set forth in the writings of prominent performers, teachers and critics.

QA: THR 809

811. Problems in Theatre Design

Spring. 3(2-2) A student may earn a maximum of 15 credits in all enrollments for this course.

R: Open only to graduate students in Theatre.

Approaches to selected problems in costumes, scenery, lighting, architecture, properties, or sound.

QA: THR 804

812. 20th Century Theatrical Design

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

R: Open only to graduate students in Theatre.

Scenic design concepts of 20th century through selected work of Appia, Craig, and others.

QA: THR 814

813. Period Resources for Directors and Designers

Fall of even-numbered years. 3(3-0)

R: Open only to graduate students in Theatre.

Methodology for researching historical customs and artifacts that directors and designers adapt for use in sets, props, costumes, and directing.

QA: THR 815

831. Studies in Theatre History

Fall of odd-numbered years, Spring of even-numbered years. 3(3-0) A student may earn a maximum of 12 credits in all enrollments for this course.

R: Open only to graduate students in Theatre.

Selected periods and genres of world theatre history. Theatre as cultural expression and as performance art. Topics vary.

QA: THR 808

832. Studies in Comparative Theatre and Drama

Fall, Spring. 3(3-0) A student may earn a maximum of 12 credits in all enrollments for this course. Interdepartmental with English.

Comparative study of selected playwrights, developments, movements, and trends in world drama from their beginnings to the present.

QA: THR 805

833. Dramatic Theory and Criticism

Fall. 3(3-0)

P: THR 800 or approval of department. R: Open only to graduate students in Theatre.

Critical and theoretical texts on drama from the early Greeks to the present.

QP: THR 800 QA: THR 801A, THR 801B

841. Advanced Directing Practices

Spring of odd-numbered years. 3(2-2) A student may earn a maximum of 6 credits in all enrollments for this course.

R: Open only to graduate students in Theatre.

Directing theory and practice in contemporary theatre, including research and experimentation.

QA: THR 806

890. Independent Study

Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course.

R: Open only to graduate students in Theatre or approval of department.

Special projects, directed reading, and research arranged by an individual graduate student and a faculty member in areas supplementing regular course offerings.

QA: THR 890

894. Special Projects in Theatre

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 10 credits in all enrollments for this course.

R: Open only to graduate students in Theatre. Approval of department.

Special projects related to specific assignments in acting, directing, or design in departmentally approved production.

QA: THR 890

899. Master's Thesis Research

Fall, Spring, Summer. 2 to 4 credits. A student may earn a maximum of 4 credits in all enrollments for this course.

R: Open only to graduate students in Theatre.

Directed research leading to a master's thesis, used in partial fulfillment of Plan A master's degree requirements.

QA: THR 899

990. Doctoral Independent Study

Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 24 credits in all enrollments for this course.

R: Open only to graduate students in Theatre or approval of department.

Special projects, directed reading, and research arranged by an individual doctoral student and a faculty member in areas supplementing the regular course offerings.

QA: THR 990

999. Doctoral Dissertation Research

Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 99 credits in all enrollments for this course.

R: Open only to doctoral students in Theatre.

QA: ENG 999

URBAN PLANNING

UP

College of Social Science

201. The Role of Planning in Urban and Regional Development

Fall. 3(3-0)

Contemporary urban issues, historical contexts, and the role of planning in the solutions of the problems faced by cities and their surrounding regions.

QA: UP 200 or UP 400

231. Presentation Techniques

Fall. 2(0-4)

R: Open only to students in College of Social Science. Not open to students with credit in LA 220.

Uses of graphic, photographic, video, and computer generated media to make presentations to clients and community groups.

QA: LA 120

233. Site Design for Planners and Developers

Fall. 2(0-4)

P: UP 231. R: Open only to students in the College of Social Science.

Designing a site for a development project: soils, drainage, elevations, view, topography, utilities, wetlands, and other elements.

QA: LA 201

313. Data Collection and Evaluation Analysis for Urban Planners

Fall. 3(2-2)

P: CPS 100 or CPS 130 or CPS 131; UP 201.

Data gathering analysis, information presentation, and basic techniques of urban planning. Application of related computer programs and software.

QP: CPS 100 or CPS 112 or CPS 115 QA: UP 341

314. Methods for Investigation of Urban Systems

Spring. 3(2-2)

P: UP 313.

Models, approaches, and techniques for urban and regional problem analysis and plan formulation.

QP: UP 341 QA: UP 342

323. Land and Environmental Planning

Fall. 3(3-0)

P: UP 201.

Principles and techniques of environmental and land use planning. Environmentally sensitive management of growth and change at both urban and regional levels.

QP: UP 200 QA: UP 363

334. Real Estate Project Design

Spring. 4(2-4)

P: UP 233.

Subdivision design, criteria, and standards. Integrating activities, structures, and spaces on parcels of varying sizes and configurations.

QP: LA 120, LA 201 QA: UP 351

344. Ethics and Politics in Planning

Spring. 3(3-0)

P: UP 201.

Political impact of community decision-making on planning. Ethics and values of professional practice.

QP: UP 200 QA: UP 363, UP 443

354. Local Economic Planning

Spring. 3(3-0)

P: UP 201, EC 201 or approval of department.

The economic component of comprehensive community planning. Taxation and services delivery. Fiscal health and physical and social development of a community.

QP: UP 200 or UP 400 QA: UP 462

400. Special Topics in Urban Planning

Fall of odd-numbered years. 2 to 4 credits.

R: Open only to juniors and seniors in Urban and Regional Planning.

Issues and problems in contemporary urban planning.

- 408. Comparative Urban Development Planning**
Spring. 3(3-0)
P: UP 201. R: Open only to majors in Urban and Regional Planning, or Urban and Regional Planning-Urban Studies.
Community planning concepts and practices, tools and techniques in different countries. Case studies.
QP: UP 200 or UP 400 or UP 808
- 417. Information Systems and Program Evaluation in Urban Planning**
Fall. 3(2-2)
P: UP 314 or approval of department. R: Open only to majors in Urban and Regional Planning, or Urban and Regional Planning-Urban Studies or Public Administration.
Systems and methods for surveillance, monitoring, management and evaluation of development projects, social programs and public policies.
QP: UP 342 or UP 815 QA: UP 410
- 427. Mine Land Reclamation Planning**
Fall of odd-numbered years. 3(3-0)
P: UP 334. R: Open only to majors in Urban and Regional Planning or Urban and Regional Planning-Urban Studies or Landscape Architecture or Resource Development or Resource Development-Urban Studies.
Issues, procedures, and opportunities in mine land reclamation.
QP: UP 200 or UP 400 or UP 816
- 428. Principles of Regional Planning**
Fall. 3(3-0)
P: GEO 113 or UP 201. R: Not open to freshmen and sophomores.
Principles and theoretical issues of regional planning. Applied spatial analysis techniques. Policies and procedures.
QP: GEO 213
- 437. Urban Design**
Fall of even-numbered years. 3(1-4)
P: UP 334 or LA 473 concurrently. R: Not open to freshmen and sophomores.
Urban design theory and application of physical design principles at various scales. Design of urban open space systems, building groupings, urban linkage, and site details in studio projects.
QP: UP 351 QA: UP 352
- 439. Golf Course Planning and Design**
Fall of even-numbered years. 3(3-0) Interdepartmental with Landscape Architecture.
P: UP 344 or LA 342. R: Open only to seniors and graduate students in Urban and Regional Planning or Urban and Regional Planning-Urban Studies or Landscape Architecture.
History, planning, and design of the golf course as a component of the community. Environmental, regulatory, technical, and financing issues.
- 457. Local Economic Development**
Fall. 3(2-2)
P: UP 354. R: Open only to juniors and seniors.
Principles and techniques of local economic development planning. Impacts of state, federal, and global economic policies and programs.
QP: UP 462 or UP 473 QA: UP 862
- 458. Housing and Real Estate Development**
Spring of odd-numbered years. 3(2-2)
P: UP 354.
Real estate development process from idea inception to asset management. Finance, organization, design and implementation. Housing, social impacts, and public sector involvement.
QP: UP 462 or UP 473 or UP 433
- 465. Planning Law I**
Fall. 3(3-0)
P: UP 344. R: Not open to freshmen and sophomores.
Statutory and case law for local government planning and development regulation.
QP: UP 200 or UP 400, UP 335 or UP 808 QA: UP 472
- 468. Planning Law II**
Spring. 3(3-0)
P: UP 465.
Advanced topics in urban planning legislation and case law.
QP: UP 472 or UP 824
- 478. Urban Transportation Planning**
Spring. 3(3-0)
P: UP 201, UP 314. R: Open only to majors in Urban and Regional Planning, or approval of department.
Principles of decision-making in urban transportation planning. Demand and supply analysis, social and environmental impacts, implementation programs. Use of computer models.
QP: UP 200, UP 342 or UP 808, UP 815
- 480. Internship in Urban Planning**
Fall, Spring, Summer. 2 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course.
R: Open only to majors in Urban and Regional Planning or Urban and Regional Planning-Urban Studies. Approval of department.
Supervised planning experience in a professional setting.
QA: UP 489
- 483. Historic Preservation and Preservation Planning in the U.S.**
Fall. 4(4-0) Interdepartmental with History of Art and Landscape Architecture.
R: Not open to freshmen and sophomores. Approval of department.
History and philosophy of the preservation of buildings, structures, and objects significant to the heritage of this nation. Preservation as a planning tool for local governments.
QA: HA 480, HA 481
- 485. Senior Planning Practicum I**
Fall. 3(0-6)
R: Open only to seniors in Urban and Regional Planning.
Collection, analysis and synthesis of planning information for an established urban area and region. Formulation of comprehensive physical development policies and plans, and of implementation programs.
QA: UP 461A
- 486. Senior Planning Practicum II**
Spring. 3(0-6)
P: UP 485.
Further collection, analysis, and synthesis of planning information.
QP: UP 461A QA: UP 461B
- 490. Independent Study in Urban Planning**
Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course.
R: Not open to freshmen and sophomores. Approval of department.
Faculty-supervised individual study in aspects of urban planning.
QA: UP 490
- 800. Special Topics in Urban Planning**
Fall, Spring, Summer. 2 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
R: Open only to graduate students in Urban and Regional Planning.
Issues and current research in urban planning.
QA: UP 897
- 801. Concepts and Issues in Planning and Development**
Fall. 3(3-0)
Urban and regional planning and development. History of the planning profession. Current urban issues and planning approaches.
QA: UP 808
- 813. Quantitative Methods for Urban Planning**
Fall. 3(2-2)
R: Open only to graduate students in Urban and Regional Planning, Public Administration, and Geography.
Quantitative techniques for the analysis and classification of data for urban planners.
QA: UP 427
- 814. Applied Research Methods for Planning and Development**
Spring. 3(2-2)
P: UP 813. R: Open only to graduate students in Urban and Regional Planning, Public Administration, and Geography.
Techniques in urban and regional planning analysis. Forecasting models. Methods of urban project evaluation.
QP: GEO 427 QA: UP 815
- 823. Urban Land Management**
Fall. 3(3-0)
P: UP 801 or concurrently.
Concepts, principles, tools, and techniques of urban and regional land management. Land use planning, public facilities, infrastructure location, and environmental sensitivity in land management.
QP: UP 808 QA: UP 816
- 834. Urban Design and Project Development**
Spring. 3(1-4)
P: UP 801. R: Open only to graduate students in Urban and Regional Planning.
Design of development projects. Integration of structures, spaces, activities, and design elements in various urban settings.
QP: UP 828 QA: UP 836
- 844. Decision Theory for Urban Planning and Development**
Spring. 3(3-0)
P: UP 801 or R: two graduate courses in the Master of Public Administration program.
Planning and development process. Political decision-making in the planning context. Professional ethics and practice.
QP: UP 808 QA: UP 816, UP 818
- 848. Urban Policy Analysis**
Spring. 3(3-0)
History of national urban policy. Developmental stages in processing new public policies.
QA: UP 803
- 854. Economics of Planning and Development**
Spring. 3(3-0)
P: UP 801.
The physical urban environment and local economic development.
QP: UP 808 QA: UP 462, UP 473
- 865. Planning and Development Law**
Fall. 3(3-0)
P: UP 801.
Constitutional and statutory bases for planning and development. Effects of case law on design, administration, and implementation of regulations.
QP: UP 816 or UP 808 QA: UP 824
- 889. Master's Research**
Fall, Spring, Summer. 3 credits.
R: Open only to graduate students in Urban and Regional Planning. Approval of department.
Supervised individual research for Plan B master's program.
QA: UP 898
- 890. Independent Study**
Fall, Spring, Summer. 2 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course.
R: Approval of department.
Faculty-supervised study in aspects of urban planning.
QA: UP 800
- 893. Internship in Urban Planning**
Fall, Spring, Summer. 2 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course.
R: Approval of department.
Supervised individual experience in approved agencies and departments in the Lansing area.
QA: UP 889

**Descriptions—Urban Planning
of
Courses**

894A. Planning Practicum I
Fall. 2(0-4)

R: Open only to graduate students in Urban Planning. Professional practice in the collection, analysis, and synthesis of information by students or student groups under faculty supervision. Developing solutions to specific urban problems.
QA: UP 834

894B. Planning Practicum II
Spring. 2(0-4)

P: UP 894A. R: Open only to graduate students in Urban Planning. Professional practices in the preparation of plans appropriate to the study area and subject matter examined in UP 894A. Designing statutory measures and administrative policies for implementation.
QP: UP 834 QA: UP 835

899. Master's Theses Research

Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course.
R: Approval of department.

QA: UP 899

VETERINARY MEDICINE VM

College of Veterinary Medicine

200. Veterinary Systems Biology and Medical Science I
Spring. 7(5-4)

P: MTH 116, CEM 142. R: Approval of college. Multidisciplinary approach to the musculoskeletal system of animals. Integration of anatomy, physiology, pathophysiology, pharmacology, and nursing care of animals. Techniques of restraint. Patient management. Medical record keeping.
QA: VM 020, VM 022, VM 023

201. Veterinary Systems Biology and Medical Science II
Spring. 7(5-4)

P: MTH 116, CEM 142. R: Approval of college. Multidisciplinary approach to the hematopoietic and cardiovascular systems of animals. Integration of anatomy, physiology, pathophysiology, pharmacology, and nursing care related to health and disease.
QA: VM 020, VM 021, VM 023

410. Veterinary Technology Clerkship in Anesthesiology
Fall, Spring, Summer. 3 credits.

P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in anesthesiology.
QA: VM 050

411. Veterinary Technology Clerkship in Radiology
Fall, Spring, Summer. 3 credits.

P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in radiology.
QA: VM 070

412. Veterinary Technology Clerkship in Companion Animal Medicine
Fall, Spring, Summer. 3 credits.

P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in restraint, examination, nursing care, monitoring, and preventative medicine of companion animals.
QA: VM 062

413. Veterinary Technology Clerkship in Companion Animal Surgery
Fall, Spring, Summer. 3 credits.

P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in surgical nursing.
QA: VM 070

414. Veterinary Technology Clerkship in Equine Medicine and Surgery
Fall, Spring, Summer. 3 credits.

P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in equine medicine and surgery.
QA: VM 062

450. Veterinary Technology Clerkship in Emergency Medicine
Fall, Spring, Summer. 3 credits.

P: VM 412. R: Approval of college. Application of principles and techniques in emergency medicine.
QA: VM 050

451. Veterinary Technology Clerkship in Cardiology
Fall, Spring, Summer. 3 credits.

P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in cardiology.
QA: VM 050

452. Veterinary Technology Clerkship in Neurology
Fall, Spring, Summer. 3 credits.

P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in neurology and physical therapy.
QA: VM 070

453. Veterinary Technology Clerkship in Ophthalmology
Fall, Spring, Summer. 3 credits.

P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in ophthalmology.
QA: VM 050

454. Veterinary Technology Clerkship in Critical Care
Fall, Spring, Summer. 3 credits.

P: VM 412. R: Approval of college. Application of principles and techniques in critical care.
QA: VM 050

460. Veterinary Technology Clerkship in Equine Anesthesiology
Fall, Spring, Summer. 3 credits.

P: VM 410, VM 414. R: Approval of college. Application of principles and techniques in equine anesthesiology.
QA: VM 050, VM 062

461. Veterinary Technology Clerkship in Equine Field Service
Fall, Spring, Summer. 3 credits.

P: VM 414. R: Approval of college. Application of principles and techniques in equine field service.
QA: VM 062

462. Veterinary Technology Clerkship in Advanced Equine Medicine and Surgery
Fall, Spring, Summer. 3 credits.

P: VM 414. R: Approval of college. Application of principles and techniques in equine medicine and surgery.

470. Veterinary Technology Clerkship in Food Animal Medicine
Fall, Spring, Summer. 3 credits.

P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in food animal medicine.
QA: VM 062

471. Veterinary Technology Clerkship in Production Medicine
Fall, Spring, Summer. 3 credits.

P: VM 470. R: Approval of college. Application of principles and techniques in production medicine.
QA: VM 062

472. Veterinary Technology Clerkship in Food Animal Anesthesiology
Fall, Spring, Summer. 3 credits.

P: VM 410, VM 470. R: Approval of college. Application of principles and techniques in food animal anesthesiology.

480. Veterinary Technology Clerkship in Clinical Pathology
Fall, Spring, Summer. 3 credits.

P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in clinical pathology.

481. Veterinary Clerkship in Microbiology
Fall, Spring, Summer. 3 credits.

P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in microbiology.

482. Veterinary Technology Clerkship in Necropsy
Fall, Spring, Summer. 3 credits.

P: VM 302, VM 303, VM 304. R: Approval of college. Application of principles and techniques in post mortem examination of common domestic species with emphasis on specimen description, collection, and submission.

483. Veterinary Technology Clerkship in Biomedical Research
Fall, Spring, Summer. 3 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.

P: VM 400. R: Approval of college. Application of principles and techniques in biomedical research involving laboratory animals.

484. Veterinary Technology Clerkship in Zoo and Wildlife Medicine
Fall, Spring, Summer. 3 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course.

P: VM 410, VM 411, VM 412, VM 413, VM 414. R: Approval of college. Application of principles and techniques in zoo and wildlife medicine.

511. Veterinary Perspectives I
Fall. 2(1-2)

R: Open only to graduate-professional students in College of Veterinary Medicine. Animal handling, restraint, and physical examination.

512. Veterinary Integrative Problem Solving I
Fall. 1(1-0)

R: Open only to graduate-professional students in College of Veterinary Medicine. Integration of subject material from concurrent semester courses.

521. Veterinary Perspectives II
Spring. 2(2-0)

R: Open only to graduate-professional students in College of Veterinary Medicine. Not open to students with credit in VM 590. Not open to students with credit in VM 590. Veterinary medical history and ethics. Client communication and animal behavior.
QA: VM 590

522. Veterinary Integrative Problem Solving II
Spring. 3(3-0)

R: Open only to graduate-professional students in College of Veterinary Medicine. Integration of subject material from concurrent and previous semester courses.

532. Veterinary Integrative Problem Solving III
Fall. 3(1-4)

R: Completion of semester 2 of the graduate-professional program in the College of Veterinary Medicine. Integration of subject material from concurrent and previous semester courses.

533. Veterinary Epidemiology
Fall. 3(3-0)

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 549. Basic epidemiologic theory and study design. Veterinary descriptive and inferential biostatistics. Production veterinary medicine.
QA: VM 544