THEATRE

453*. Labanotation

Fall of odd-numbered years. 3(2-2) R: Not open to freshmen and sopho-

Theory and practice of labanotation with emphasis on notating movement, reading notated scores, and analyzing movement theory.

QA: THR 403

Choreography and Dance Production 454*.

Spring of even-numbered years. 3(2-2)
P: THR 451 or THR 452.
Intensive practicum in choreography. Principles and methods of dance production.
QP: THR 401ATHR 401B QA: THR 404 TUP 405 QA: THR 404 THR

455*.

History of Dance to 1900 Fall of even-numbered years. 3(3-0) R: Not open to freshmen and sopho-

тогея.

Overview and anthropological perspective on selected ethnic forms of dance. Emphasis on dance idioms and dance artists as cultural expressions. QA: THR 493

History of Dance since 1900 Spring of odd-numbered years. 3(3-0) R: Not open to freshmen and sopho-456

mores.

Overview and anthropological perspective on dance. Modern dance artists and theorists. Contributions of theatrical dance forms. QA: THR 494

480*. Senior Seminar

Spring. 2(2-0) P: THR 341 plus 15 credits in Theatre

R: Senior Theatre

Contemporary theatre, dance and performance theory and practice for theatre seniors.

490*.

Independent Study
Fall, Spring, Summer. 1 to 4 credits.
May reenroll for a maximum of 6 credits.

R: Approval of the Department
Special projects arranged by an individual student and a faculty member in areas supplementing regular course offerings. QA: THR 499A

494*. Performance Tour

Fall, Spring. 3(0-6) May reenroll for a maximum of 6 credits. R: Acceptance into cast of touring pro-

duction.

Rehearsal for and participation in the various departmental touring productions. QA: THR 489

800*. Theatre Research Methodology Fall. 3(3-0)

R: Theatre

Research techniques appropriate to theatre. Initial planning for Thesis or Dissertation. QA: THR 800

801*. Practicum in Theatre Arts: Acting Fall, Spring. 3(0-8) May reenroll for a maximum of 18 credits.

R: Theatre Acting techniques including improvisation, Stanis-lavskian techniques, to develop diverse acting QA: THR 803A

802*.

Stage Voice Fall. 2(0-4) May reenroll for a maximum of 6 credits. R: Theatre

Study and practice of principles and exercises for development of the speaking voice for actors. Application to selected dramatic texts. QA: THR 802

803*. Acting Theory

Spring of even-numbered years. 3(3-0) R: Theatre

Theories, processes, techniques, and styles of acting set forth in the writings of prominent performers, teachers and critics. QA: THR 809

Problems in Theatre Design Fall, Spring. 3(2-2) May reenroll for a maximum of 15 credits. 811*.

Characteristics and approaches toward the solu-tion of design problems in costumes, scenery, lighting, architecture, properties or sound. QĂ: THR 804

812*. Twentieth Century Theatrical Design

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

Scenic design concepts of 20th century through selected work of Appia, Craig and others to the present day. QA: THR 814

813*. Period Research & Resources for Directors and Designers Fall of even-numbered years. 3(3-0)

Methodology for researching historical artifacts and customs that directors and designers will adapt for use in sets, props, costumes and directing. QA: THR 815

831*. Studies in Theatre History Fall, Spring. 3(3-0) May reenroll for a maximum of 12 credits.

Selected periods and genres of world theatre history emphasizing the theatre as a cultural expression and a performance art. QA: THR 808

832* Studies in Comparative Theatre and Drama

Fall, Spring. 3(3-0) May reenroll for a maximum of 12 credits. Interdepartmental with the Department(s) of English.

Comparative study of selected playwrights, developments, movements and trends in world drama from their beginnings to the present time. QA: THR 805

833* Dramatic Theory and Criticism Fall. 3(3-0)

P: THR 800 or Approval of Department

Dramatic criticism and theory from the early Greek to the present. QP: THR 800 QA QA: THR 801A THR 801B

841*. Advanced Directing Practices Spring of odd-numbered years. 3(2-2) May reenroll for a maximum of 6 credits.

Directing theory and practice in contemporary theatre including research and experimentation. QA: THR 806

890* Independent Study

Fall, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 8 credits.

R: Approval of the 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

Master's Thesis Research-Plan A 899*. Fall, Spring, Summer. 2 to 4 credits. May reenroll for a maximum of 6

credits.

R: Approval of the Department
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. May reenroll for a maximum of 12 credits.

R: Approval of the Department Special projects, directed reading, and research arranged by an individual doctoral candidate and a faculty member in areas supplementing the regular course offerings. QĂ: THR 990

999*. Doctoral Dissertation Research Fall, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 24

credits. R: Approval of the Department

UP

QA: ENG 999

URBAN PLANNING

201. The Role of Planning in Urban and Regional Development Fall. 3(03-0)

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

QÅ: UP 200 OR UP 400

231*. Presentation Techniques for Planning and Design Professionals Fall. 2(0.-8)

Uses of graphic, photographic video and computer generated media to make presentations to clients and community groups. QA: LA 120

Presentation Techniques for Planning and Design Professionals Fall. 2(0.-8) 231A*. C: LA220

Uses of graphic, photographic video and computer generated media to make presentations to clients and community groups. QA: LA 120

Site Design for Planners and 231B*. Developers Fall. 2(0-8)

P: UP 231A C: LA 220 R: Social Sci-

Soils, drainage, elevations, view, topography, utili-ties, wetlands, and other elements considered in designing a site for a development project. QA: LA 120

2334. Site Design for Planners and Developers Fall. 2(0-8) P: UP 231A R: Social Science

Soils, drainage, elevations, view, topography, utilities, wetlands, and other elements considered in designing a site for a development project, QA: LA 120

URBAN PLANNING

313*. Introduction to Data Analysis for Planners

Fall. 3(02-2) P: one CPS course

P: one CPS course
Introduction to data analysis, data gathering, information presentation, and use of basic techniques of planning investigation. Application of related computer programs and software.

QP: CPS 100 ORCPS 1120RCPS 115

QA: U QA: UP

314*. Methods for Investigation of Urban Systems Spring. 3(02-2) P: UP 313, or department approved

statistics course. 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(03-00) 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 Q. QA: UP 363

334*. Real Estate Project Design

Spring. 4(02-04)

Spring. 4(02-04)

P: LA 240 or UP 231 and UP 233

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

QP: LA 120 ANDLA 201 QA: UP 351

Ethics and Politics in Planning 344*. Spring. 3(3-0) P: UP 201

354*. Local Economic Planning Spring. 3(3-0) P: UP 201

The local economy and the economic component of comprehensive community planning. Taxation and services delivery. Relationship of fiscal health to physical and social development of a communi-

ty. QP: UP 200 ORUP 400 QA: UP 462

400* Special Topics in Urban Planning Fall of odd-numbered years. 2 to 4 credits.

P: Approval of Program

QP: N/AQA: N/A

4084 International Development

Planning Spring. 3(3-0) P: UP 201 or UP 801 R: Juniors and

above. Community planning concepts and practices in different countries. Tools and techniques in a variety of political, social, and cultural settings. Problems and responses to world issues. Case studies. QP: UP 200 ORUP 400ORUP 808

Principles of Regional Planning 416*.

Fall. 3(3-0)

Fall. 3(3-0)

P: GEO 113 R: Juniors and above

Principles and theoretical issues of regional planning. Applied spatial analysis techniques. Policies and procedures. QP: GEO 213

417*. Information Systems and Program Evaluation in Urban Planning Fall. 3(2-2)

P: UP 314 or UP 814 or PLS 802 or

PLS 803 R: Junior & Senior Systems and methods for surveillance, monitoring, management and evaluation of development projects, social programs and public policies.

QP: UP 342 ORUP 815 QA: UP410

Land Reclamation Planning

Fall. 3(3-0) P: UP 201 or UP 801 R: Urban Planning, Landscape Architecture & Resource Developmen t Issues, procedures and opportunities in mine land reclamation. QP: UP 200 ORUP 400ORUP 816

428*. Principles of Regional Planning . 0(-) Interdepartmental with the Department(s) of Geography.

437*. Urban Design

Fall. 3(1-4)
P: UP 334. R: Not open to freshmen.
Urban design theory and application of physical design principles at various scales. Design of urban open space systems, building groupings, urban linkage, and site détails in studio projects. QP: UP 351 QA: UP 352

457* Economic Development

Fall. 3(2-2) P: UP 354 or UP 854 or EC 806C R: Juniors & Seniors

Principles and techniques of local economic development planning. Impacts of global economy and federal and state economic development policies and programs on local economic development.

QP: UP 462 ORUP 473 QA: UP 862

458* Housing and Real Estate Development

Spring, 3(2-2) P: UP 354 or UP 854

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 ORUP 473ORUP 433

Planning Law

Fall. 3(3-0)
P: UP 201 or UP 801
Statutory and case law for local government planning and development regulation.
QP: UP 200 ORUP 400ANDUP 335 QA: UP

468*. Advanced Planning Law

Spring. 3(3-0) P: UP 465 or UP 865

Advanced topics in urban planning legislation and case law. QP: UP 472 ORUP 824

478*. Urban Transportation Planning
Spring. 3(3-0)
P: (UP 201 and 314) or (UP 801 and
UP 814) R: Junior or Senior
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 ANDUP 342)OR(UP 808

Internship in Urban Planning Fall, Spring, Summer. 2 to 4 credits. P: Approval of Program

QA: UP 489

485*. Senior Planning Practicum I

Fall. 3(0-6) R: Seniors Urban 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 Continuation of UP 485. QA: UP 461B QP: UP 461A

490* Independent Study in Urban Planning

Fall, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 8 credits.

R: Not open to freshmen and sopho-mores. Approval of department. Faculty-supervised individual study in aspects of urban planning. QA: UP 490

499*. Independent Study in Urban Planning

Fall, Spring, Summer. 1 to 4 credits. May reenroll for a maximum of 8 credits.

P: Approval.
Research under the supervision of an Urban Planning faculty member. QA: UP 490

Special Topics in Urban Planning Fall, Spring, Summer. 2 to 4 credits. May reenroll for a maximum of 6 800*.

credits.

R: Graduate Students Issues and current research in urban planning. QA: UP 897

801*. Introduction to Planning and

Development Fall. 3(03-0)

R: Graduate Students

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: graduate status Quantitative techniques for the analysis and classification of data for urban planners. QA: UP 427

Applied Research Methods for Planning and Development Spring. 3(2-2) P: UP 813 R: Graduate Students 814*.

Techniques in urban and regional planning analysis. Forecasting models. Methods of urban project

QP: GEO 427 QA: UP 815

Urban Land Management 823*

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

URBAN PLANNING

834*. Urban Design and Project Development Spring, 3(1-4) P: UP 801

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 decisionmaking in the planning context. Professional ethics and practice QP: UP 808 Q QA: UP 816 UP 818

848* **Urban Policy Analysis**

Spring. 3(3-0)
R: Graduate Students
History of national urban policy. Stages in the public policy process and the development of new

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 OR 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. Experience in legal research. QP: UP 816 ORUP 808 QA: UP 824 UP 472

839*. Master's Research Fall, Spring, Summer. 3(0.-3)

P: Approval of Program R: Graduate Students

QA: UP 898

890*. Independent Study

Fall, Spring, Summer. 2 to 4 credits.
R: Approval of department.
Faculty-supervised study in aspects of urban plan-

ning. QA: UP 800

893*. Internship in Urban Planning Fall, Spring, Summer. 2 to 4 credits. May reenroll for a maximum of 8 credits

P: Approval of department. Supervised individual experience in approved agencies and departments in the Lansing area. QA: UP 889

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 implementa-

QP: UP 834 QA: UP 835 899* Master's Thesis Research

Fall, Spring, Summer. 1 to 4 credits. P: Approval of program

QA: UP 899

VETERINARY MEDICINE **VM**

Veterinary Perspectives I

Fall. 2(2-0) P: Admission to the College of Veterinary Medicine. R: College of Veterinary Medicine Veterinary Medicine none

Animal handling, restraint and physical examina-

512*. Veterinary Integrative Problem Solving I

Fall. 1(1-0)
P: Admission to the College of Veterinary Medicine. R: College of Veterinary Medicine Veterinary Medicine none

Integration of subject material from concurrent semester courses.

521*. Veterinary Perspectives II

Spring. 2(2-0) P. Admission to the College of Veterinary Medicine R: College of Veterinary Medicine Veterinary Medicine none
Veterinary medical ethics, history, client communication, and animal behavior.

522*. Veterinary Integrative Problem Solving II Spring. 3(2-2)

P: Admission to the College of Veterinary Medicine. R: College of Veterinary Medicine Veterinary Medicine none Integration of subject material from concurrent and previous semester courses.

532*. Veterinary Integrative Problem Solving III Fall. 3(2-3)

P. Admission to the College of Veterinary Medicine R: College of Veterinary Medicine Veterinary Medicine none Integration of subjectmaterial from concurrent and previous semester courses.

53.7* Veterinary Epidemiology

Fall. 3(3-0) P: Admission to the College of Veterinary Medicine R: College of Veterinary Medicine Veterinary Medicine none Basic epidemiologic theory and study design; vet-erinary descriptive and inferential biostatistics; production veterinary medicine.

540*. Metabolic Diseases Fall. 1(1-0)

P: Completion of Year 1 of the College of Veterinary Medicine. R: Year 2 College of Veteri-nary Medicine Veterinary Medicine none Biochemical and physioligical basis of metabolic and endocrine diseases of animals including diagnosis, treatment and management.

541*. Veterinary Perspectives III Spring. 2(2-0)

P: Admission to the College of Veterinary Medicine. R: College of Veterinary Medicine Veterinary Medicine none Concepts and principles of veterinary practice management.

Veterinary Integrative Problem Solving IV Spring. 3(2-3) P: Admission to the College of Veteri-542

nary Medicine. R: College of Veterinary Medicine Veterinary Medicine none Integration of subject material from concurrent

and previous courses.

543 Cardiovascular Diseases

Spring. 2(2-0)

P: Admission to the College of Veterinary Medicine R: College of Veterinary Medicine Veterinary Medicine None

Cardiovascular diseases of domestic animals with emphasis on pathogenesis and princilpes of diagnosis and treatment.

544*. Veterinary Public Health
Spring. 2(2-0)
P: Admission to the College of Veterinary Medicine. R: College of Veterinary Medicine Veterinary Medicine none

Veterinary environmental and occupational health; milk hygiene; meat hygiene; veterinary public health; control of zoonotic diseases.

545*. Principles of Anesthesia and Surgery

Spring. 4(3-2)
P: Admission to the College of Veterinary Medicine. R: College of Veterinary Medicine Veterinary Medicine none

Principles and techniques of administering anesthetic agents; fundamentals of surgery including principles of sterile technique, tissue handling, suture patterns, wound healing and postoperative

546*. Musculoskeletal Diseases

Spring. 5(5-0)
P: Admission to the College of Veterinary Medicine. R: College of Veterinary Medicine Veterinary Medicine none

Musculoskeletal diseases of domestic animals, with emphasis on pathogenesis and principles of diag-nosos and treatment.

547. Respiratory Diseases
Spring. 2(2.0)
P: Admission to the College of Veterinary Medicine. R: College of Veterinary Medicine None
Respiratory disease of James 1997.

Respiratory diseases of domestic animals, with emphasis on pathogenesis and principles of diagnosis and treatment.

548*. Principles of Radiology

Fall. 1(1-0) P: Completion of Year 1 of the College of Veterinary Medicine. R: Year 2 College of Veteri-nary Medicine Veterinary Medicine none Fundamentals of veterinary radiology. Normal radiographic anatomy. Principles of radiographic interpretation. Radiation safety.

549*. Veterinary Epidemiology
Fall. 3(3-0)
P: Completion of Year 1 of the College
of Veterinary Medicine. R: Year 2 College of Veterinary Medicine Veterinary Medicine none
Meaning and relevancy of biostatistics in veterinary medicine. Descriptive and inferential statistics. Study design and critical literature review.
Disease determinants, ecology, distribution and Disease determinants, ecology, distribution and populations at risk analytic-clinical investigation.