

Graduate Program Guide

Masters of Urban and Regional Planning



Department of Urban and Regional Planning
California State Polytechnic University, Pomona

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Welcome to the Department of Urban and Regional Planning. You are joining a community of visionary and dedicated professionals working to improve the quality of our neighborhoods, cities and regions. More specifically, you are joining our family of over 1,400 Cal Poly Pomona planning alumni. This guide provides information that will help you progress through the Masters of Urban and Regional Planning degree with the greatest education benefit.

We are committed to providing the highest quality professional education. You will experience a wide variety of teaching strategies and you will study a wide range of subjects focused on building knowledge, skill and values that support effective planning. Just as practicing planners use different skills each day, you will draw on and develop skills in communication, analysis, design, collaboration and management throughout your courses. We will ground your study in real life case studies and projects in the communities of the Los Angeles region.

Whether you are new to planning or already familiar with the field, you should explore the career options in planning early in your academic program. The American Planning Association--the primary professional organization for planners-- has local, state and national activities that will broaden your knowledge of what planners do. An additional option is to join Planners Network, which focuses on issues of community organizing and social change or a variety of environmental organizations.

Another way to learn about planning is to join GPSA, the Graduate Planning Student Association. GPSA is the graduate student organization for the department. GPSA provides social activities and professional enrichment. Additionally, its officers represent graduate students as participants in department policy-making processes.

The Graduate Coordinator, Hersh Farberow, will provide guidance as you move through the program and develop your career goals. Since the program offers specialization options, and since the pace at which courses are taken may vary, careful planning is important. All graduate students should work closely with the Graduate Coordinator and other faculty throughout their time in the program. Professor Farberow is your first contact on curriculum issues, but all of the faculty and the Department Chair, Dr. Richard Willson, are available students during their office hours and by e-mail.

Seek out whatever other mentors you need--senior students, practicing planners, community leaders. We can help you make contacts. Attend college and department events such as the Dale Prize events, ENV Career Day, or mentor programs. Finally, take advantage of Cal Poly Pomona resources that can help prepare you for academic and career success, whether it is writing assistance or interview practice.

A word about standards and expectations: Our department is very proud of the reputation our graduate program has among employers. The recent Planetizen program ranking placed our program in the top 15 programs in the country and the only such program offered in the evening. Employers tell us that our graduates are quick starters, are knowledgeable about planning and have excellent skills. To enhance that reputation we ask you to make a commitment to the program. Getting a planning degree involves full participation in course activities whether attending classes, writing papers, preparing graphic presentations, or taking exams. We expect regular and timely attendance in class, active participation, and adherence to deadlines and other course policies. We will strive to make our expectations clear in class materials, feedback on assignments, mentoring, and participation in your presentations.

A good planning education requires your participation outside the classroom. You might get involved in the activities of a professional organization or GPSA, form a study group with your fellow students, carry out a community service project together, or organize a field trip. These activities will greatly expand your knowledge and experience. We know that many of you balance work obligations with school and we recognize the delicate balance you must find. But we must ask that you put your schooling as the first priority, and part of that involves extracurricular activities.

This document summarizes requirements and procedures for admission into the program; the graduate contract; course requirements, including the core courses, specialization courses, electives, and terminal courses; registration and scheduling classes; and the thesis and comprehensive exam. Students should also purchase the current University Catalog and the Class Schedule at the Bronco Bookstore on campus. The University Catalog contains official University and Department rules and procedures, descriptions of all course offerings by all departments, information on costs, financial aid, etc., and descriptions of all University programs, centers, institutes, and services. The University Catalog is published biannually, but is updated annually on CD-ROM and continually updated on the University's web page. A Class Schedule, available on the University web page and from the College's Technical Services, is also published as hard copy for each academic quarter and sets out the academic calendar, registration procedures, the courses offered by each department and the times and places of the courses. The web version is always the most up to date and accurate information source.

Graduate Coordinator

The Graduate Coordinator is the advisor for all graduate students and is responsible for administering the graduate program. Because the program is designed to serve students from a wide variety of backgrounds with different planning interests who complete the program on different schedules, the Graduate Coordinator provides individual assistance in developing each

student's program of study. The current Graduate Coordinator is Professor Hersh Farberow. Students can meet with him during posted office hours and by appointment. He can be contacted at (909) 869-2716 or by e-mail at hfarberow@csupomona.edu.

Admission to the Program

The Department accepts applications for the Fall quarter only. Admission requires an undergraduate grade point average of 3.0 (B) or better. If you get your transcripts to University Admissions early a request can be made for an evaluation of your GPA for the last 90 units taken. We also consider any graduate units completed. An applicant with an undergraduate grade point average between 2.5 and 3.0 will be considered for admission on the basis of scores on the Graduate Record Exam (GRE). For the GRE, the entrance requirement for URP is a combined score of no less than 1000 on the combined scores of the verbal and quantitative sections, with no less than 450 on either section. Applicants with an undergraduate grade point average of 3.0 or better are not required to take the GRE.

Students are admitted into the program from a variety of disciplines and work backgrounds. Experience in planning or a related field is not required, but will be taken into account in the application of admission criteria. Students who do not meet admission requirements may take department courses through the Extended University on campus. They may then be considered for admission if they receive a 3.0 (B) grade or better for each course taken.

Applicants are required to submit two different packages, one to the University and another to the Department of Urban and Regional Planning. Submit the University application (preferably electronically from their web page), a set of official transcripts and, your GRE scores if required to University Admissions. The Department submittal requires the "Statement of Purpose" setting out an applicant's interest in planning and objectives (1-3 pages), three letters of recommendation (note that we have no set form, only that they should be sealed originals and on letterhead), and a copy of all the information sent to University Admissions. Send the Department submittal information directly to the department.

Leave of absence

California State University policy requires graduate students maintain their enrollment status. If a student plans to not register for three quarters in a row (including summer), the student must complete a "leave of absence" petition. Otherwise they will have to reapply to the program and be re-accepted in order to continue their studies. A leave of absence allows a student to return within two years without reapplying.

The Graduate Contract and the Graduation Check

Students are admitted to the program on a conditional basis. Under that status, students may take any 500 series or lower courses. Unconditional status, which allows students to take 600-level courses and advance toward completion of the program, is granted when the graduate contract is completed and approved. After a student has completed twelve or more units of core coursework with a 3.0 (B) or better grade point average, the student must schedule a meeting with the graduate coordinator to submit a graduate contract. The graduate contract sets out the courses that will be taken to complete the program. This is usually submitted in the Spring quarter of the first year. The graduate contract requirement assures that the student and the Graduate Coordinator review the student's approach to the program and establishes a set of courses, with a timeline, that matches our program's requirements and the student's needs. The graduate contract must be approved by the Graduate Coordinator, the Department Chair, and College Dean, and be verified by the University Graduate Studies Analyst. Modifications to the contract, if minor, can be done with a petition. Modifications beyond minor require a new contract be written and approved.

Before the end of the third week of the academic quarter preceding the quarter the student intends to graduate, the student must request a graduation check by the Records Office. The student's transcripts will be compared to the approved graduate contract and the student will be notified of any remaining course requirements. Students must pass all courses in the graduate contract and the Graduate Writing Exam to complete the program. Some changes in the set of courses are expected between the completion of the graduate contract and the graduation check. Students should discuss changes with the Graduate Coordinator and receive approval for substitutions (by petition) before the courses are taken. All changes can be combined in a final petition for amending the contract prior to graduation.

Registering for Classes

A printed copy of the class schedule, is available for each quarter at the Bronco Bookstore and at the Instructional Services Center of the College of Environmental Design. It provides directions on-line registration and a full schedule of classes for that quarter. More up-to-date information on class schedules and class availability is available through Bronco Direct on the University's web page. After the first quarter in the program, students receive a mailed registration form indicating a time registration. URP courses are also posted outside the department office. It is important to check that posting (or on line) for any last minute changes in course offerings, room assignments, or other details concerning the courses. Students may register in person and pay fees on-line or at the Cashier's office. Students may also register during the first week of class. Because department's graduate courses are designed for our students,

they may be added in person at the first class meeting. However, pre-registering for these classes provides the department with an indication of demand for the class and can help assure that classes for which demand exists are not cancelled.

Program Course Requirements

The seventy-two units that must be completed in the graduate degree program are divided into four parts, which are described in the following sections:

- Core Courses 42 units
 - Specialization Courses 12 units
 - Electives 12 units
 - Thesis, or Comprehensive Exam: 6 units
- Total 72 units

Students enter the program with a wide variety of academic and work backgrounds and different interests in planning. The program is designed to assure the breadth needed for excellent professional practice while providing flexibility for specialization and in-depth study. The forty-two units of core courses provide a solid understanding of planning theory and history, city development, planning law and politics, data analysis and research methods, policy analysis, group project work, and the administration of a modern planning office. The twelve units of specialization courses and the twelve units of electives provide the flexibility to meet individual interests and needs. Students may choose to complete a thesis or take the comprehensive exam to complete the program. All course work must be completed in seven years.

University regulation allows no more than 13 units of acceptable graduate credit to be transferred from another institution or from the Extended University. If students intend to take courses outside the University to meet specialization areas or elective requirements or to transfer credit for courses taken through the Extended University they must contact the Graduate Coordinator for review and approval. No course below the 400 (senior) level will be accepted for graduate credit. Students should consult the Graduate Coordinator regarding courses at other institutions that do not have the same course numbering system as Cal Poly. The seven-year time limit for graduates begins with the first course taken, including any course transferred for credit.

A grade point average of "B" (3.0) or better must be maintained in all graded course work used to satisfy degree requirements. Students will not graduate unless they have a "B" (3.0) or better grade point average at graduation. Students falling below an overall "B" average must complete an advising contract with the Graduate Coordinator for the next academic quarter that indicates the courses and the minimum grade point average for that quarter that will raise their overall grade point average to or above a "B" (3.0). Failure to raise the grade

point average will result in dismissal from the program. A grade of "C" (2.0) or above is a passing grade for a course. However, a maximum of eight units with the grade of "C" (2.0) will be accepted for credit within the required seventy-two units. Courses in which a student earns a grade of "C-" (1.7) or lower cannot be applied to the required seventy-two units.

Core Courses

The twelve core courses provide the breadth of information needed for excellent planning practice. They are designed to be taken concurrently with the specialization and elective courses. There are core courses for the first year and core courses for the second or succeeding years. Because each core course is offered once a year, students should concentrate on first scheduling core courses. The core courses include:

URP 501/501L	Introduction to Graphic Communication and Design
URP 502L	Urban Analysis Fundamentals
URP 505	The Economic, Social, and Environmental Context for Planning
URP 506	Legal Foundations of Urban and Regional Planning
URP 512/512A	Urban and Regional Planning Theory and Practice
URP 521/521L	Urban and Regional Planning Research Methods
URP 522/522L	Urban and Regional Planning Data Analysis and Simulation
URP 523/523L	Policy Analysis, Implementation, and Evaluation
URP 551	Social and Political Planning Policy
URP 641/641L	Graduate Planning Studio I
URP 642/642L	Graduate Planning Studio II
URP 652	Planning Administration and Professional Practice

The core courses are arranged below by the quarter they are generally given and the year they should be taken with University Catalog descriptions and some explanatory notes. Students transferring from another graduate program may substitute previous courses for core courses with review and approval of the Graduate Coordinator. Many courses have two course numbers, such as 501 and 501L, which indicates that the course includes both a lecture discussion format and a laboratory (or activity session or seminar if an A follows the number as in

512A). Students should always register for both parts of a class. There are two course sequences in the core: URP 521, 522 and 523 must be taken in succeeding quarters and URP 641 and 642 must be taken in succeeding quarters.

The tabular information below is a recommended schedule for successful progress through the Master of Urban and Regional Planning curriculum over a two-year period for those who desire to be full time students. The University and Financial Aid consider 8 units full time for a graduate student. Other time-frame options are available; prospective students are encouraged to discuss their needs with the Graduate Coordinator or Department Chair.

Our program is possible to complete in two, very full, years. The two-year plan requires that a student enter in the Fall quarter and take every core class along with classes for their area of specialization and electives in almost every quarter. Summer elective courses are offered. Most students take 3 or more years to complete the 72 units in our program.

Required core classes are offered in the evenings, between 5:00 PM and 11:00 PM Mondays through Thursdays (the exception is one core class is offered during the day on Saturdays). First year core classes are scheduled on Monday and Wednesday. Later core classes are offered on Tuesday and Thursday. The department schedules as many elective and module classes as is possible in the evening. Some elective classes, however, are offered during the day or on Saturdays. Depending on a student's choice of classes and the pace with which they are proceeding through the program, students may need flexibility to attend a daytime class for one or more elective classes during their time in the program.

Core and Elective Courses for the Masters of Urban and Regional Planning

Two Years; Full Time Schedule

	Fall	Winter	Spring	Summer
1st year core	URP 512/A Theory	URP 521/L Methods I	URP 522/L Methods II	
Offered on Monday and Wednesday	URP 505 Context URP 501/L Graphics	URP 551 Social Policy	URP 506 Planning Law	
1st year electives/ specialization classes		Elective or Class to meet Area of Spec.	Elective or Class to meet Area of Spec.	Elective or Class to meet Area of Spec.
	Fall	Winter	Spring	Summer

2nd year core Offered on Tuesday ad Thursday	URP 523/L Policy Analysis	URP 641/L Studio 1	URP 652 Prof Practice URP 642/L Studio II	
2nd year electives/ specialization classes/ Thesis/exam	Elective or Class to meet Area of Spec.	URP 692, or URP 696 Elective or Class to meet Area of Spec.	URP 692, or URP 696 Elective or Class to meet Area of Spec.	

Three Years or more; Part Time Schedule

	Fall	Winter	Spring	Summer
1st year core Offered on Monday and Wednesday	URP 512/A Theory URP 505 Context URP 501 Graphics	URP 521/L Methods I URP 551 Social Policy	URP 522/L Methods II URP 506 Planning Law	
1st year electives/ specialization classes				Elective or Class to meet Area of Spec.
	Fall	Winter	Spring	Summer
2nd year core Offered on Tuesday ad Thursday	URP 523/L Policy Analysis	URP 641/L Studio I	URP 642/L Studio II URP 652 Prof Practice	
2nd year electives/ specialization classes	Elective or Class to meet Area of Spec.	Elective or Class to meet Area of Spec.	Elective or Class to meet Area of Spec.	Electives or Classes to meet Area of Spec
	Fall	Winter	Spring	Summer
3rd year electives/ specialization classes/ thesis/ exam	Elective or Class to meet Area of Spec	URP 692, or URP 696 Elective or Class to meet Area of Spec	URP 692, or URP 696 Elective or Class to meet Area of Spec	

FIRST YEAR:

FALL:

URP 501/501L: Introduction to Graphic Communication and Physical Design Skills (1/2)

Introduction to basic planning graphic and design techniques. Covers areas such as graphic communication, presentation techniques, report graphics, site planning, the development processes, and current computer applications. Concurrent enrollment required. 1 lecture discussion, 2 three hour laboratories. *Students with extensive graphics experience may seek to substitute another class for URP 501/501L and would then take at least three units of additional elective credit to fulfill the seventy-two unit overall requirement.*

URP 502/502L: Urban Analysis Fundamentals (1)

Intensive courses focusing on a selected communication or analysis skill, the subject to be specified in advance. Topics may include listening and communication skills, report writing, negotiation/mediation processes, computer analysis, mapping or graphics, photography, etc. May be repeated for elective credit. 1 laboratory. *Students are required to take at least one 502 course. The 502 courses are scheduled throughout the year and cover a wide range of topics. They are often scheduled on several Saturdays for convenience. Students may take as many one unit 502 classes as they wish. The first 502 taken is considered a core course. Additional 502 courses become electives or part of your specialization, if appropriate.*

URP 512/512A: Urban and Regional Planning Theory and Practice (2/2)

Applications of planning theory to planning practice. The use of planning methods, research techniques, and decision theory in the application to a range of urban problems. 2 lecture discussions, 2 seminars. Concurrent enrollment required.

URP 505: The Economic, Social, and Environmental Context for Planning (4)

Development of the economic and social structure of cities. Environmental factors in cities and regions. Historical development and current issues. Explores the forces that shape and affect possibilities for cities and regions. 4 lecture discussions.

WINTER

URP 521/521L: Urban and Regional Planning Research Methods (3/1)

Introduction to the use of probability and statistics in urban and regional planning research. Basic planning techniques; data analysis and display; projection techniques; land use surveys and coding; simple models; economic base and locational analysis-, electronic data processing. 3 lecture discussions, 1 three-hour laboratory. Concurrent enrollment required.

URP 551: Social and Political Planning Policy (4)

Survey of contemporary urban conditions from a social policy perspective. Basic principles and practices of contemporary social policy planning. Methods by which urban social trends are analyzed, social indicators developed and applied to program development and analysis. Established social, economic and political institutional considerations, centralized and decentralized social policy-decision models. 4 lecture discussions. Prerequisite: URP 512/512A.

URP elective course, either graduate or 400-level undergraduate.

SPRING:

URP 522/522L: Urban and Regional Planning Data Analysis and Simulation (3/1)

Introduction to data analysis and computers. Mathematical models related to land use, and population projections and estimates. Application of data analysis in the solution of research problems, research design and project management. 3 lecture discussions, 1 three hour laboratory. Concurrent enrollment required. Must be taken immediately following URP 521/521L. Prerequisite: URP 521/521L.

URP 506: Legal Foundations of Urban and Regional Planning (4)

Legal and institutional framework for planning. Emphasis is placed on understanding federal and state requirements for planning, constitutional rights, and key legislation. 4 lecture discussions.

SECOND YEAR:

FALL:

URP 523/523L: Policy Analysis, Implementation, and Evaluation (3/1)

Evaluation methods of public policies and private decisions on the public welfare, using quantitative and qualitative analytic tools. Emphasis is on application of statistical approaches, cost benefit analysis, computer aided mapping and survey techniques to contemporary issues in planning. 3 lecture discussions, 1 three hour laboratory. Concurrent enrollment required. Prerequisite: URP 522/522L.

WINTER

URP 641/641L: Graduate Planning Studio I (2/2)

Theory, process, design and method for strategic planning demonstrated by studio problems based on field studies. Synthesis of graduate planning coursework reviewed through practical application. 2, lecture discussions, 2 three-hour laboratories. Concurrent enrollment required. Unconditional standing required.

SPRING:

URP 642/642L: Graduate Planning Studio II (2/2)

Continuation and completion of the plan formulation begun in URP 641/641L. Must be taken immediately following URP 641/641L. 2, lecture discussions, 2 three-hour laboratories. Concurrent enrollment required. Unconditional standing required.

URP 652: Planning Administration and Professional Practice (2)

Administration of planning agencies; development and administration of planning and community development programs; the place of planning in local government organization and structure; function of the professional planner in public and private practice; professional ethics and responsibilities. 2 lecture discussions. Prerequisite: URP 512/512A, Unconditional standing required.

GRADUATE AREAS OF SPECIALIZATION

Students are required to complete a graduate specialization area. Four possible areas are identified below. Students may develop their own area of specialization with the approval of the Graduate Coordinator. Each student shall identify and include an area of specialization on their graduate contract:

Pre-established areas of specialization are:

- COMMUNITY DEVELOPMENT
- ENVIRONMENTAL PLANNING AND POLICY
- LAND USE AND DESIGN
- TRANSPORTATION PLANNING AND POLICY

Each of the specialization areas requires a minimum of twelve units. The format for the Community Development and the Environmental Planning and Policy areas is one required course, a second course chosen from appropriate Department courses, and a third appropriate course within or outside the Department. The format for the Land Use and Design and the Transportation Planning and Policy areas is two required courses and a third appropriate course within or outside the Department. The selection of courses must be approved by the Graduate Coordinator and appear as a selected set of specialization courses on the approved graduate contract. The required courses, elective courses, goals, and expected outcomes for each area are described below. Students may use the 12 units of electives to complete a second specialization area, explore other planning areas or to take additional courses in their specialization area.

COMMUNITY DEVELOPMENT

The Community Development graduate specialization area consists of one required course, a second course chosen from a set of URP courses, and one elective course. Students must take a minimum of 12.0 units to complete this area. In the event that the elective course (for example URP 502) is less than 4.0 units, additional elective courses will be required until the minimum number of units for the area is reached. URP 434 will be the first course taken in the sequence, followed by a second URP course -- to be selected from the courses listed below. Faculty with expertise in Community Development include Dr. Julianna Delgado, Dr. Gwen Urey, Prof. Ileana Apostol and Prof. Charles Loggins. There are also substantial resources for collaboration in the Architecture and the Geography departments.

REQUIRED COURSES

The required course is:

URP 434/434A (3/1) Community Development Theory and Process

For the second course, students must select at least four units from the following courses:

URP 483/483A (3/1)	The Urban Development Process
URP 484/484A (3/1)	Neighborhood Revitalization
URP 485/485L (3/1)	Urban Design Seminar
URP 498/498L (3/1)	Planning Studio
URP 499/499A/499L (1-4)	Special Topics for Upper Division Students
URP 502 (1)	Urban Analysis Fundamentals
URP 534/534A (3/1)	Urban Housing and Community Development
URP 691 (1-2)	Directed Study

ELECTIVE COURSES

The goal of the elective course is to encourage students to link their theoretical and practical knowledge of community development. The graduate advisor and student are encouraged to review URP and non-URP courses that meet the spirit of this section. For example, “special studies” courses addressing “gender/ethnic diversity” may be offered by the Department and would be accepted with permission of the Graduate Coordinator.

Students select at least four units from among the following or similar, approved courses:

ARC 652 (4)	Social Responsibility in Architecture
GBA 580 (4)	Theory of Real Estate Principles and Appraisal
GBA 583 (4)	Practices and Application of Real Estate Law
GED 546 (3)	School, Community, and Home Relations
LA 555 (2)	Seminar on Human Behavior in the Landscape
LA 556 (2)	Seminar on Human Behavior and Landscape Design

GOALS AND EXPECTED OUTCOMES

Department courses within this area focus on the residential community as the basic unit of a city. The premise is that by strengthening and redeveloping communities, cities in turn will be stabilized and strengthened.

Goals

The three-course sequence, in part, is geared to assist students in understanding the economic, political, ethnic and cultural forces that influence the development of residential communities within the larger geographic community. Courses within this area explore the interconnected issues through a teaching/critical thinking application process involving lectures, field studies, seminars, independent study, small and large group activity.

Expected Outcomes:

To understand and appreciate the intricacies of communities as the accumulation of layers of geographic, social, cultural, economic and political form for human activity;

- -Understand and organize an appropriate research design for studying and analyzing “community-based” plans;
- -Develop suitable programs for public input and awareness;
- -Be able to collect, analyze and manipulate required data for use in the development and production of information, schemes, statutes and guidelines related to planning for communities;
- -Understand and produce the plans, scopes of development, policy instruments, ordinances and operational recommendations for implementation of “community-based” plans;
- -Gain knowledge of:
 - affordable housing
 - developing a local employment base
 - maximizing the existing infrastructure and land use capabilities
 - urban design problems
 - adequate social services
 - responsive commercial activities
 - traffic management
 - local control of planning decisions

ENVIRONMENTAL PLANNING AND POLICY

The field of environmental planning is diverse, dynamic, and interdisciplinary. This specialization is designed to provide an introduction to the important theoretical and scientific bases for environmental policy and at least two prevailing environmental planning methods. Students are required to take one graduate course covering the framework for environmental planning, a second appropriate course in the Department, and a third approved course from the Departments, other departments on campus, or from another campus. Faculty with expertise in environmental planning include Dr. Jerry Mitchell, Professor Hersh Farberow, Dr. Dimitris Poulakidas, and Professor Anna Maria Whitaker. There are also substantial resources for collaboration in the Landscape

Architecture and Geography departments. Courses in this area can be taken in any sequence, although it is suggested that the URP 537 course precede the other two courses.

REQUIRED COURSES

The required course is:

URP 537: Environmental Policy for Planning

Students must take at least four units of appropriate URP courses, with approval of the Graduate Coordinator for the second course. The course may include, but is not limited to:

URP 466:	Urban Growth Management
URP 487:	Environmental Factors in Regional Planning
URP 498:	Advanced Planning Studio (when appropriate)
URP 499:	Special Topics in Planning (when appropriate)
	The Department regularly schedules environmental topics such as Sustainable Communities or Risk Management
URP 538:	Land Use Planning and Design

ELECTIVE COURSES

The goal of the elective course is to encourage students to apply or link the knowledge gained in URP 537 and the second URP course to an area or methodology of interest. Students may have a prior background that would allow advanced study in such areas as engineering or architecture or they may need to develop their interest area with a variety of courses in conjunction with the elective courses in their contract. The third course of this area could be an appropriate URP course or an appropriate course within or outside the University. Suggested courses from the University include, but are not limited to:

EC 435:	Seminar on Environmental Economics
EC 438:	Seminar on Waste Management Economics
EC 439:	Seminar on Water Resource Economics
CE 432:	Water Quality Engineering
CE 457:	Solid Waste Management
PHL 433:	Bioethics
LA 423:	The Urban Landscape
LA 499:	Special Topics in Landscape Architecture (when appropriate)
ARCH 402, 405, 406:	Appropriate Topics in Architectural Design

GOALS AND EXPECTED OUTCOMES

Department courses introduce students to the integration of applicable science, environmental ethics, and policy processes into a working framework for addressing a wide variety of environmental issues. Environmental planning is seen as a field that necessarily involves a series of ethical and value judgments in the face of largely uncertain science and the choice of policy instruments appropriate for the task at hand.

Goals

The three-course sequence starts and guides the education and development of the student in this rapidly changing field. Emphasis is placed on developing a broad understanding and methodological flexibility. The focus is on integration and interconnections among scientific studies, policy instruments, and a student's evolving sense of environmental ethics.

Expected Learning Outcomes

The expected learning outcomes are that students;

- -Understand the range of environmental ethics, including different approaches to the integration of technology, consumption, population, biodiversity, and urban design/land use.
- -Understand the development of environmental policy in the United States and internationally.
- -Develop an approach to environmental planning that integrates science, policy instruments, and environmental ethics regarding planning for such issues as:
 - -population control
 - -technology development
 - -management of waste, water, and natural resources
 - -the meaning and development of sustainable urban areas
 - -planning for pollution control and abatement
 - -restoration of ecological habitat areas
- -Understand and be able to apply at least one environmental methodology such as risk management, environmental impact assessment, environmental cost benefit analysis, or habitat conservation planning.

LAND USE AND DESIGN

The Land Use and Design specialization area consists of two required courses (totaling 8.0 units) and one elective course (totaling no less than 4.0 units). In the event that the elective course (for example URP 502) is less than 4.0 units, additional elective courses will be required until the minimum number of units is

reached. Faculty with expertise in Land Use and Design include Dr. Jerry Mitchell, Professor Hersh Farberow, Dr. Dimitris Poulakidas, Professor Ileana Apostol, Dr. Juliana Delgado, and Professor Anna Maria Whitaker.

REQUIRED COURSES

URP 538/538L (3/1)	Land Use Planning and Design
URP 498/498L (3/1)	Advanced Planning Studio.

URP 538 is the first course taken in the sequence, followed by URP 498; exceptions can be made in unusual circumstances with approval of the Graduate Coordinator.

ELECTIVE COURSES

The goal of the elective course is to encourage students to link their theoretical and practical knowledge of land use and design to computer methods as a spatial-analytic and/or physical design tools. The Graduate Coordinator and student are encouraged to review URP and non-URP courses that meet the spirit of this section. For example, “special studies” courses addressing spatial analysis may be offered by the Department and would be accepted with permission of the graduate advisor. Suggested courses include, but are not limited to:

URP 486/486L (1/3) Computer Applications in Planning

URP 502/502L (1) Urban Analysis Fundamentals (Note: URP 502 will only be applicable when the graduate advisor determines that the primary component of the course content deals with land use and design, real estate, or spatial analysis.)

Students with strong interests in land use and design are encouraged to consider other “spatial analytic and/or physical design” related courses as part of their 12 units of electives. Suggested courses include:

ARC 652 (4)	Social Responsibility in Architecture
LA 555 (2)	Seminar on Human Behavior in the Landscape
LA 556 (2)	Seminar on Human Behavior and Landscape Design
URP 412 (4)	Planning and Urban Design in Europe

URP 434/434A (3/1)	Community Development Theory and Process
URP 466 (4)	Urban Growth Management
URP 483/483A (3/1)	The Urban Development Process
URP 485/485L (3/1)	Urban Design Seminar
URP 487	Environmental Factors in Planning
URP 488/488L (3/1)	Urban Transportation Planning
URP 498/L (3/1)	Advanced Planning Studio
URP 499/499A/499L (1-4)	Special Topics for Upper Division Students
URP 502 (1)	Urban Analysis Fundamentals
URP 535/535L (4)	Urban Transportation and Circulation Systems
URP 537 (4)	Environmental Policy for Planning
URP 651 (4)	Social and Political Planning Policy
URP 691 (1-2)	Directed Study

GOALS AND EXPECTED OUTCOMES

This area connects theory with fieldwork and knowledge of standard professional practice. Courses within this area explore the interconnected issues through a teaching/critical thinking/design application process involving lectures, field studies, seminars, independent study, small and large group activity.

Goals

Knowledge about interconnections between land use patterns and social factors, economic factors regional/city/neighborhood identities. Skills in spatial analysis, design research and developing design solutions.

Expected Outcomes

Students would be able to:

- create a workable land use plan for a region, city or district which reflects its values, resources and potential;
- understand and appreciate the intricacies of the built environment as both spatial, social, cultural, economic and political form for human activity;
- understand and organize an appropriate research design and methods appropriate in an integrated approach to comprehensive land use planning;
- be able to collect, analyze and manipulate required data for use in the development and production of information, schemes, statutes and guidelines related to planning and design;

- understand and produce the plans, scopes of development, policy instruments, ordinances and operational recommendations for implementation;
- develop suitable programs for public input and awareness;
- understand the cognitive models of computer technology and the rules by which it can be controlled and manipulated for planning and design purposes; and
- be able to create maps either hand-drawn or computer assisted reflecting multiple layers of historic and non-historic information;
- be able to use maps as a communications and analytic tool in documents and public presentations.

TRANSPORTATION PLANNING AND POLICY

The transportation planning and policy module provides students with the knowledge and skills to take leadership roles in transportation planning in local and regional agencies such as county transportation authorities, councils of governments, cities, and transit operators. It also prepares students for leadership in transportation consulting firms. The module is of interest to land use planners intending to improve the connection between land use and transportation planning, and has linkages with the community development and environmental policy modules as well.

The transportation planning and policy area consists of two required URP courses and one elective course. URP 488 addresses the transportation issues faced by local jurisdictions and URP 535 addresses regional and policy issues. The specialization totals 12 units. The courses can be taken in any sequence. Faculty with expertise in transportation planning include, Dr. Richard Willson, and Dr. Dimitris Poulakidas. There are also substantial resources for collaboration in the Civil Engineering and Economics departments.

REQUIRED COURSES

The required courses are:
 URP 488/488L (3/1): Urban Transportation Planning
 URP 535 (4): Regional Transportation Planning and Policy

ELECTIVE COURSES

The goal of the elective course is to broaden the student's knowledge in transportation planning by providing greater exposure to the economic or engineering aspects of transportation planning, or through supporting URP classes. Electives include, but are not limited to:

CE 429:	Traffic Engineering/Laboratory
EC 419:	Seminar in Land Economics

EC 421:	Introductory Econometric Methods
EC 432:	Seminar in Urban Economics
EC 433:	Economics of Transportation
EC 530:	Advanced Seminar in Environmental Economics
EC 659:	Seminar in Transportation Economics
EC 660:	Public Finance
URP 486:	Geographic Information Systems Applications in Planning
URP 537:	Environmental Policy for Planning
URP 538:	Land Use Planning and Design

GOALS AND EXPECTED OUTCOMES

Goals

The course sequence is geared to providing knowledge and skills so that students become effective policy makers in transportation planning. In addition to the skill-oriented outcomes listed below, the courses seek to develop a broad understanding of the evolution of transportation systems, transportation finance, and land use. Although the courses introduce traffic engineering concepts, they do not cover that subject in great detail. The specialization area also provides students completing related areas, such as land use and design or environmental planning and policy, an opportunity to have a dual specialization.

Expected Outcomes

On completing the specialization area, students will be able to:

- -analyze socioeconomic and spatial determinants of travel demand using aggregate and disaggregate techniques;
- -conduct local traffic analysis, parking analysis, and traffic mitigation strategy development;
- -analyze and solve site-specific and sub-area transportation problems;
- -develop transportation policies and implementation programs addressing issues such as travel demand management, transit, and land use/transportation coordination;
- -use analytic and policy evaluation techniques to assess the efficiency and equity of proposed policies;
- -develop financing and programmatic proposals for transportation projects.

COMPREHENSIVE EXAM OR THESIS?

The final requirement for completion of the program is 6 units consisting of either the comprehensive exam or a thesis. For a student to complete the program all

coursework and one or the other of the above must be completed within seven years from the first course applied to the degree.

Students may or may not have a clear preference for the exam or thesis. Historically, students in the program have split about evenly between the exam and the thesis. Students should consult the Graduate Coordinator and other faculty in their area of interest in making their choice.

COMPREHENSIVE EXAM

The comprehensive exam is given in the fifth week of the Spring quarter each year. Students choosing to take the exam must register in URP 692 for both the Winter and Spring quarters. The student must have completed all 500 level core class by the quarter of the exam and passed or officially waived the GWT (Graduation Writing Test), in order to register for URP 692.

The Winter quarter URP 692 is a four-unit course that reviews and integrates previous planning courses in preparation for the test. The Spring quarter URP 692 is a two-unit course that consists of the written test (taken in the fifth week of classes) and the oral defense (taken in the eighth week). Students intending to take the comprehensive exam should inform the Graduate Coordinator early the preceding Fall quarter so the course can be scheduled.

The written test covers the major program areas over two days of testing. The exam addresses:

1. Planning Theory, Professional Ethics
2. The Planning Environment
3. Research Methods,
4. Policy Analysis
5. Planning Law,
6. Social Policy, and
7. An area of specialization (identified by the student in the seventh week of the Winter quarter).

The faculty member who wrote the exam question reads the student's response. If given a pass, or C grade or better, the section the section is considered passed. If a fail or a grade of C- or lower is given a second reader is assigned to the grading. If the second reader passes the response the section is passed. If the second reader also fails the response the section is failed. If all parts of the written test are passed by at least one reader, the student moves on to an oral defense that is given in the eighth week. The oral portion of the exam further explores the student's response to the exam questions. Students who received a split (a pass/fail on any question must resolve that during the oral defense. A student must pass all parts of the test and present a passing oral defense to pass the exam. If any parts of the test receives a failing grade, the student is deemed to have failed the entire exam and must either take the entire exam again by re-

enrolling in URP 692 in the following Winter/Spring or choose to write a thesis. If the exam is failed a second time, the student is dismissed from the program.

THESIS

Students choosing the thesis option must take URP 696 twice for three units each time (concurrent enrollment is not allowed). Students may register for URP 696 any quarter after they have completed all 500 level core courses and passed or officially waived the GWT (Graduation Writing Test). If the student has taken URP 696 twice and has not completed the thesis, they must register for URP 699 (thesis continuation, 0 units) the quarter that they defend. Students do not have to take the URP 696 courses consecutively. For example, a student may register for URP 696 in the Fall quarter, not register in the Winter while continuing to work on the thesis, and then register for URP 696 in the Spring quarter and defend that quarter. A student must be registered for either URP 696 or URP 699 the quarter they defend the thesis. The URP 696/699 sequence must be completed within two years. University requirements convert the satisfactory progress (SP) given for the URP 696s into a Fail after the two-year period and there is no grade replacement possibility in the graduate program.

Students can begin to discuss their thesis with the Graduate Coordinator and/or faculty in their area of interest at any time. The department has a guide to the thesis entitled "Demystifying the Thesis" which is available at the department office and from the Graduate Coordinator. Within three weeks of the first registration for URP 696, the student must complete a thesis proposal form (available from the Graduate Coordinator) that sets out basic information about the thesis and that is signed by a thesis committee. The thesis committee is composed of three members and must be chaired by a URP faculty member. One member of the committee may come from outside the URP faculty if that member has recognized expertise in the thesis topic and is approved by the thesis chair. The student requests a faculty member to be chair of their committee and that faculty member can assist the student in filling out the committee. The chair should be a faculty member with expertise in the thesis topic area and be someone the student works well with. Most often, the chair is the key person on the committee and is most responsible for directing the student.

The thesis should be defended by the fifth week of the quarter chosen for the oral defense. This leaves time for final changes the committee may require. The student may schedule the oral defense of the thesis in any quarter after receiving permission from their thesis chair. Students should have a draft of the full thesis completed by early in the quarter they defend.

Following a successful defense, completion of any revisions required by the committee, and final signatory approval by the committee, the student takes the final thesis to the University Library for format approval. The thesis must be in the format required by the University Thesis Regulations that are available from

the University Library or from the Graduate Coordinator. Once approved, the student makes the number of copies desired (at least three for the University and Department are required) and delivers the copies to the Graduate Analyst who is in charge of having them bound. The thesis must be delivered to the Graduate Analyst as per University requirements.

Forms to be aware of:

- Graduate Contract
- Contract Change Petition
- Thesis Committee Approval
- Graduate Check
- Application for Graduation
- Leave of Absence
- Completion of Oral Defense