



DURP

Department of Urban and
Regional Planning
University of Hawai`i at Mānoa

**2015 - 2016
Program Guide**



Social Policy

Natural Resources

Community Planning

Disaster Management

Coastal Zone Management

Asia-Pacific

International Development

Transportation

Bio Diversity

Collaboration

Environmental Planning

Globalization

Conflict Resolution

Water Resources



Seeking Solutions to the Challenges of Today and the Future

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Welcome to the Department of Urban and Regional Planning

University of Hawai`i at Mānoa

A. INTRODUCTION

The Department of Urban and Regional Planning (DURP), in the College of Social Sciences offers:

- *Master of Urban and Regional Planning (MURP)*
- *PhD in Urban and Regional Planning*
- *Certificate in Planning Studies*
- *Professional Certificate in Urban and Regional Planning*
- *Certificate in Disaster Management and Humanitarian Assistance (DMHA)*

Faculty and students in the Department are actively engaged in both funded and non-funded research and community service. The Department emphasizes theory, methodology, and practice in the following areas: community planning and social policy, environmental planning and natural resource management, urban and regional planning in Asia and the Pacific, land use, transportation and infrastructure planning, and disaster management and humanitarian assistance.

B. THE FIELD OF URBAN AND REGIONAL PLANNING

Urban and regional planning is a dynamic field that requires innovative solutions from committed and thoughtful individuals. Historically, it emerged out of the convergence of two concerns: (1) the provision of urban infrastructure; and (2) the initiation of social reform. Today the underlying focus on community well-being continues, and urban and regional planning has broadened to include the development, implementation, and evaluation of a wide range of policies. Specifically urban and regional planners, in both developing and developed countries, are concerned with:

- *the use of land in the city, suburbs, and rural areas; particularly with the transition from one use to another*
- *potentially adverse impacts of human activities on a limited physical environment and the possible mitigation of those impacts*
- *the design of the city and the surrounding region to facilitate the engagement in the activities that people need and desire*
- *settlement systems and the location of human activities in urban and regional space*
- *identification of social needs and the design and provision of services and facilities to meet those needs*
- *the distribution of resources, benefits and costs among people*
- *the anticipation of change and its impact on how people do and can live*
- *the participation of citizens in planning processes which affect their future*
- *the way that choices are made, decisions implemented and actions evaluated, and*
- *the means by which those processes can be improved in urban and regional areas*

PROFESSIONAL OPPORTUNITIES

MURP graduates, of whom there are more than 410, hold a variety of planning and related positions in a multiplicity of public agencies, non-profit organizations, and private firms. Most are employed in Hawai'i or the Pacific Basin. In Hawai'i, at the state level, these include the Departments of Business, Economic Development and Tourism, Health, Hawaiian Homelands, the Legislative Auditor, the House Majority Research Office, the Hawai'i Community Development Authority, Land Use Commission, Hawai'i Finance Development Corporation and the Office of State Planning.

Graduates working for the City and County of Honolulu hold positions in the Departments of Land Utilization, General Planning, Housing and Community Development, Parks and Recreation, and the City Council. Others in Hawai'i are employed by the County of Hawai'i Planning Department, Maui County Planning Department, banks, trust companies, consulting firms in urban and regional planning, developers, local business firms, and the University and other colleges, while some are in planning businesses of their own or practicing law (including land-use).

Graduates working in the Pacific or Asia region include planners with national universities, urban development, regional planning and housing agencies, planning consultants and island planners, and environmental and international organizations. Mainland graduates include city and county planners, professors in planning and law, program analysts in federal agencies (e.g., OCRM and OMB), planning consultants and analyst planners with private firms.

MURP graduates are also pursuing doctoral degrees in planning, political science, geography and economics, while some are seeking law degrees.

C. URBAN AND REGIONAL PLANNING AT THE UNIVERSITY OF HAWAI'I AT MĀNOA

The Department of Urban and Regional Planning (DURP):

- *takes a multidisciplinary approach to planning education—recognizing in particular the important contributions to planning that can be made by the social and natural sciences and by the architectural, public health, social work, and civil engineering professions*
- *emphasizes extensive community involvement*
- *engages in research that focuses on the application of planning methodologies and implementation of planning endeavors*
- *recognizes the close relationship between urban and regional planning and politics*
- *acknowledges the difficulty of resolving the value differences that lie at the heart of most planning problems*
- *appreciates both the importance and the elusiveness of critical concepts, such as "the public interest", to urban and regional planning.*

The Department is concerned with planning questions both within the State of Hawai'i and in the broader geographical community, with particular emphasis on the Pacific Basin and Asia.

The Department offers a limited number of undergraduate courses which serve in part to introduce undergraduate students to the field of Urban and Regional Planning and broaden their knowledge of particular subjects such as housing, GIS, and disaster management. These 300 and 400 level undergraduate courses are listed on pages 27 and 28 of this program guide.

Student Learning Outcomes

Upon completion of the PhD/MURP degree, students should be able to:

- *describe and explain historic, social and economic processes leading to the transformation of human settlements and their habitats*
- *articulate justifications for planned interventions*
- *think critically about how to create more socially just and environmentally sustainable regions, cities and communities*
- *apply methods of social and spatial analysis to gather, organize, display and interpret social-spatial information at a variety of scales*
- *work with clients to clarify organizational, neighborhood or regional problems, generate and assess potential strategies to address these problems and assemble strategies in a plan or professional report*
- *collaborate with residents, agency officials and others to design and implement strategies for identifying, acknowledging, gathering, and collectively assessing and prioritizing individual and group perceptions and knowledge*
- *make a public presentation of a plan, professional report or public commentary in a coherent and persuasive fashion*
- *acknowledge and take responsibility for the ethical implications of the choices we make as professionals*

D. THE DEGREE PROGRAMS

The MURP degree program is fully accredited by the Planning Accreditation Board. It is a professional program designed to:

- *equip students to fill professional planning and policy analysis roles in public agencies, international organizations, private firms, and community groups, particularly in Hawai'i, Asia, and the Pacific Basin*
- *develop and apply new knowledge in the field of planning*
- *provide service to public agencies, communities, and others concerned with urban and regional planning.*

Students normally take two to three years to complete the MURP program. The program requires a minimum of 42 credit hours.

Both thesis (Plan A) and non-thesis (Plan B) programs are available. All students are required to pass a final examination, including successful defense of the thesis (Plan A) or the selected Capstone (Plan B) and to meet the departmental standards for graduation.

A PhD program is also available to students with a MURP degree or equivalent. The PhD offers advanced students the opportunity to specialize in one of the sub-fields of planning. PhD students are expected to take a minimum of 15 credit hours beyond the MURP degree, pass a comprehensive exam, and prepare and defend a dissertation.

E. ADMISSION TO THE MURP DEGREE PROGRAM

Criteria

Admission to the Master of Urban and Regional Planning (MURP) degree program requires a bachelor's degree from an accredited college or university. Most students entering the degree program have concentrated in social sciences, natural sciences, architecture, or engineering at the undergraduate level. Others have specialized in the humanities, business, or the physical sciences. The Department encourages applicants from a variety of fields.

A student admitted to the MURP degree program is expected to have a basic foundation in descriptive/inferential statistics. A student who has not achieved competence in statistics may be admitted to the degree program but will need to make up any deficiency prior to being advanced to candidacy for the degree. Remedial coursework in statistics (see section CC), which may be taken on a credit/no credit basis, will not count toward the degree.

To assist in the admission process, the applicant is required to complete an Admissions Assessment Form and submit it to the Department at the time of application. It is important to emphasize that applicants may cite either academic work or non-academic experience in documenting their competence in an area. In most cases, the level of knowledge or understanding required is that which can be gained from an upper division (junior or senior year) course or sequence of courses considered basic by a discipline in the area of concern. Preference in admission is given to those students with good preparation in one or more of these areas:

- *social and natural sciences insofar as they are relevant to urban and regional processes, e.g., coursework in urban economics, regional geography, and environmental science*
- *research methods, e.g., statistical analysis, survey research*
- *physical systems analysis and design, e.g., architecture, transportation engineering, urban design*
- *planning or administration, e.g., work in a planning department or consulting firm, experience in administering a program, office, or neighborhood council*

Special consideration for admission is given to students who have had experience with a culture other than their own. Such experience may have been obtained in Peace Corps, Vista, or through less formal involvement.

Native English-speaking applicants must submit Graduate Record Examination (GRE) or GRE Revised General Test aptitude scores (minimum combined score of 300). Non-native English-speaking applicants must have adequate preparation in English based on the Test of English as a Foreign Language (TOEFL) iBT score (minimum of 76) or IELTS Academic Score (minimum of 6.5). Candidates are expected to have a minimum of a 3.0 grade point average. Students with a lower average may be considered for admission on a conditional basis.

The admissions committee is responsible for evaluating a student's objectives, letters of recommendation, GRE, TOEFL, and/or IELTS scores, academic record, and experience. The statement submitted by the student as part of his/her application is carefully reviewed by the committee. The committee may request additional data from an applicant and/or request an interview if arranging one is feasible. Applicants are encouraged to meet with members of the faculty on their own initiative prior to applying if they are in Hawai'i.

Procedures

Application to the Master's degree program in Urban and Regional Planning proceeds through two channels. Some materials are submitted to the Office of Graduate Education, which reviews all graduate study applications and sends those meeting basic criteria to the appropriate academic departments. Once the Urban and Regional Planning Department receives the official documents from the Office of Graduate Education, it supplements them with additional information provided by the applicant. When the application file is complete, the admissions committee is able to act on it.

The applicant is to submit the following materials directly to the Office of Graduate Education:

1. *Application for Graduate Admission form or online application*
2. *One official copy of transcript(s)*
3. *If a native English-speaking applicant, an official report of the GRE or GRE Revised General Test aptitude scores, and if a non-native English-speaking applicant, an official report of the TOEFL or IELTS Academic score*

The following are to be submitted directly to the admissions committee of the Department of Urban and Regional Planning. Items 4, 5, and 6 should be submitted by the applicant and item 7 by his/her references:

4. *Admissions Assessment Form*
5. *Express Information Form*
6. *Statement of Objectives*
7. *Two letters of reference from persons well-acquainted with the applicant's academic work and/or professional experience.*

The deadline for receipt of application materials is March 1st for admission the following fall semester and September 1st for admission the following spring semester. Application

materials, including all relevant forms, may be obtained from the Department and its website. Official notification of admission or denial is issued by the Office of Graduate Education, not by the Department.

F. ADMISSION TO THE PhD PROGRAM

Criteria

Admission to the PhD program requires a master's degree in planning. In exceptional circumstances candidates with either an advanced research background or exceptional professional experience, but who do not have an M.A. degree may be admitted. Admission may be granted with the understanding that some background courses or examinations may be required.

Consideration for admission requires a GPA of at least a 3.5 in previous graduate work. Applicants are also required to submit Graduate Record Examination (GRE) or GRE Revised General Test scores for verbal, math and analytic sections. Non-native speakers of English are also required to submit a TOEFL iBT minimum score of 100, or an IELTS minimum score of 7.5.

Applicants are also expected to submit evidence of advanced work such as a research report or sole-authored plan.

Procedures

As is the case with the MURP degree, applicants to the PhD submit some materials directly to the department and some directly to the Office of Graduate Education. The Office of Graduate Education reviews all graduate study applications and sends those meeting basic criteria to the appropriate academic departments. Once the department receives official documents from the Office of Graduate Education and has received all materials from the applicant, the admissions committee meets to consider the application.

PhD applicants submit the following directly to the Office of Graduate Education:

1. *The Application for Graduate Admission form or online application*
2. *One official transcript from each college or university attended since high school*
3. *If a native English-speaking applicant, an official report of the GRE or GRE Revised General Test aptitude scores, and if a non-native English-speaking applicant, an official report of the TOEFL or IELTS Academic score*

The following are to be submitted directly to the admissions committee of the Department of Urban and Regional Planning:

4. *Admissions Assessment Form*
5. *Express Information Form*
6. *Statement of Objectives*
7. *Two letters of reference from persons well-acquainted with the applicant's academic work and/or professional experience*
8. *Example of Applicant's professional work*

The deadline for receipt of application materials is January 1st for admission the following fall semester (GRE scores and letters of recommendation will be accepted after this deadline, but no action will be taken on the application until all relevant application materials have been received).

G. FINANCIAL ASSISTANCE

Financial assistance is available to a limited extent:

- *The Department, in cooperation with the Office of Graduate Education, offers both merit tuition waivers/achievement scholarships and non-resident tuition waivers*
- *The Department offers teaching assistantships that is usually awarded to second year students*
- *Depending on current research endeavors, there are usually several research assistantships available to advanced students*
- *Several students enrolled in the Department are East-West Center grantees. More information can be found at EastWestCenter.org/studentprograms. A few of the scholarships/fellowships offered are:*
 - *Asian Development Bank Scholarship Program*
 - *East-West Center Affiliate Programs*
 - *East-West Center Graduate Degree Fellowships*
 - *United States – South Pacific Scholarship Program*
- *Some students qualify for and participate in the University's work-study program; others apply for student loans and a number of students secure part-time employment in the planning field, which serves as a source of work experience and financial assistance*
- *Periodically, the department offers a scholarship supported by the Hawai'i Chapter of the American Planning Association*
- *Students who are residents of certain states may qualify for Western Interstate Committee for Higher Education (WICHE) tuition rates. More information at www.wiche.edu*

For information and application forms for student loans, work study employment, and grants contact:

Financial Aid Office, 2600 Campus Road, Suite 112, Honolulu, HI 96822
(808) 956-7251.

Inquires may also be directed to the Department at
(808) 956-7381 or idorp@hawaii.edu.

H. COURSEWORK AND RELATED MURP DEGREE REQUIREMENTS

(Unless indicated otherwise, all courses carry three units of credit.)

- a. Each MURP degree student is required to complete the following coursework:
 - *PLAN 600: Public Policy and Planning Theory*
 - *PLAN 601: Planning Methods*
 - *PLAN 603: Economic Analysis for Urban Planning and Policy*
 - *Two of the four "distribution" courses:*
 - a. *PLAN 610: Community Planning and Social Policy*
 - b. *PLAN 620: Environmental Policies and Programs*
 - c. *PLAN 630: Urban and Regional Planning in Asia*
 - d. *PLAN 640: Land Use Policies and Programs*
 - *The Planning Practicum consisting of either:*
 - a. *PLAN 751 (6 credits): Planning Practicum*
 - b. *PLAN 754 (6 credits): Urban Design Studio*
- b. A second theory course and a second methods course, in addition to PLAN 600 and 601, which relate to the student thesis (Plan A) or Capstone (Plan B), are required.
- c. The MURP degree requires a minimum of 42 credit hours of courses deemed acceptable by the faculty. A student's academic program is normally expected to include courses offered by other departments and programs, provided the inclusion of such courses is approved by the student's advisor. Grades of B or better are required in PLAN 600, 601, 603, and an average of B or better in all courses counted toward the MURP degree. MURP students receiving a grade lower than a B will be allowed one additional opportunity to achieve a B or better in each core course.
- d. A student may take up to three hours of PLAN 699 directly related to the preparation of the Capstone paper.
- e. Each student is to successfully complete a thesis (Plan A) or work in an area of focus as defined by the student and accepted by his/her faculty advisory committee, including passage of a minimum of three courses in the area (Plan B). (See Section M comparing Plan A and Plan B requirements for further details.)
- f. Passage of a final oral examination (applicable to both Plan A and Plan B students) is required of all MURP degree candidates. The final examination will review the student's capabilities and achievement in the field of urban and regional planning including the area of thesis research (Plan A) or the Capstone (Plan B).

- g. All students graduating from the Department are expected to meet the following output standards:
- *Explain major planning paradigms and their applications*
 - *Articulate processes leading to urbanization and rationales for planned interventions*
 - *Apply planning methods to organize, analyze, interpret and present information*
 - *Critically and creatively develop planning inquires or processes to foster solutions-orientated decision-making*
 - *Effectively collaborate as a planning team to work with a client and/or stakeholders to assess and address a relevant planning problem to create a plan or professional report*
 - *Effectively present oral and written work (as a plan, professional report, or research paper) in a coherent, persuasive and professional manner*
 - *Reflect upon the ethical implications of the choices planners make as professionals*
- h. Each student is responsible for submitting a memorandum to his/her committee indicating how he or she has met the output standards. Examples of such memoranda are available from the Department Secretary.
- i. Each student is to meet all requirements established by the Office of Graduate Education (e.g., maintenance of an acceptable grade point average, completion of remedial work). The student should become familiar with all Office of Graduate Education regulations as presented in the current edition of the University of Hawai'i at Mānoa Graduate Information Bulletin.

I. COURSEWORK AND RELATED PhD REQUIREMENTS

Each PhD degree student is required to complete at least 15 credits in advanced courses (in addition to any remedial courses designated at the time of admission):

PLAN 602:	Advanced Planning Theory
PLAN 655:	Planning Research Methods
PLAN 650:	Research Design Seminar

In addition, PhD candidates are required to take six credits in an allied field (to be selected in consultation with the student's advisor). Students are also required to take one three-credit course in research design/proposal writing.

Prior to starting the dissertation, PhD candidates will sit for a comprehensive examination in their primary fields of planning.

J. STUDENT ADVISING

No one course of study is appropriate for all, or even a majority, of the students in the Department. Therefore, much emphasis is placed on advising. When the student is admitted to the Department, he/she is initially advised by the Department Chair. At the initial advising session, each student specifies his or her field of interest in one of the following:

- *community planning and social policy*
- *environmental planning and natural resource management*
- *urban and regional planning in Asia and the Pacific*
- *land use, transportation and infrastructure planning*
- *disaster management and humanitarian assistance*

By the end of the first semester of study, students should select a member of the Urban and Regional Planning faculty to serve as his or her ongoing advisor. This faculty member should have expertise in the student's field of interest. The emphasis is on assuring that students understand their opportunities and obligations during their ensuing graduate work.

Students may subsequently change their designated field of interest in consultation with his/her advisor. It is important that each student embark on a well-planned course of study. Attention must be paid to the correct sequencing of courses.

As the student progresses, more emphasis will be placed on his/her interests, in particular how they are to be expressed through a thesis (Plan A) or work in an area of focus (Plan B). The Capstone may focus on one area or bridge interest across two or more areas of interest. At the later stage of the MURP, a committee is formed for each student at his/her invitation. The committee, consisting of at least three faculty members, two of who must be from the Urban and Regional Planning Department, carries the primary responsibility for assuring that subsequent coursework is appropriate for the student.

The chairperson and committee ultimately certify that the student has met the standards for graduation. Committee formulation is a formal process, initiated by the student and approved by the Department Chair and the Office of Graduate Education.

K. PROCEDURES

After admission to the Urban and Regional Planning, each new student must schedule a preliminary conference with the Department Chair. The Department Chair will conduct a systematic evaluation of the adequacy of the student's prior preparation and will advise with respect to overcoming any deficiencies. Satisfactory conclusion of this meeting leads to completion of the Preliminary Conference. The faculty member the student has chosen will be assigned at time of enrollment.

Students are advanced to candidacy after successful completion of twelve (12) credits of study and approval of their choice of Plan A (Thesis) or Plan B (Capstone). Admission to candidacy is followed by formation of either a thesis committee or a capstone committee. Plan A students must have their thesis topic approved at this time.

The committee counsels and guides the student throughout the remainder of his/her program. Near the conclusion of the student's work toward the degree, the committee conducts the final oral examination. This step is the final examination. The Department will maintain the students' files and will monitor the progress of all graduate students.

L. PLAN A (THESIS) AND PLAN B (NON-THESIS, CAPSTONE) OPTIONS

The University of Hawai'i permits graduate programs some flexibility in specifying requirements for graduate degrees. The Urban and Regional Planning Department currently exercises the thesis option (Plan A) and the non-thesis option (Plan B).

Plan A (thesis)

Students may elect to pursue Plan A, the thesis option, if they demonstrate to their advisers sufficient interest, motivation and capability to complete the thesis requirements and are prepared to devote a substantial portion of their graduate study to thesis preparation. Three credits of coursework are allocated to preparation of the thesis proposal:

- *PLAN 650 (3 credits, preparation)*
- *PLAN 700 (6 credits, thesis itself, including at least one credit in the semester that the degree is to be awarded)*

Students wishing to complete a thesis must declare their intent prior to enrolling in PLAN 700 and must do so before finishing 24 credits that he/she intends to apply. This normally takes place in the third semester of the program. The faculty recommend that the student prepare a brief prospectus (not exceeding three pages) which explains the proposed thesis topic and the methodology to be employed and circulate it among the faculty well in advance of committing himself/herself to the preparation of a thesis proposal. This feedback stage is instrumental in determining whether the topic is a reasonable one and whether faculty resources are appropriate to the topic. A guide for proposal writing is available to students from the Department office.

Each Plan A student is to enroll in PLAN 650: Research Design Seminar (unless waived by the Departmental chairperson on recommendation of the committee chairperson) and prepare a thesis proposal under the guidance of his/her adviser. If the thesis proposal is not completed and defended prior to the final examination period of the semester of enrollment in PLAN 650, it is likely that the faculty will recommend that the student switch to the Plan B option (PLAN 650 cannot be counted toward a Plan B MURP degree). The actual writing of the thesis follows the defense of the proposal. The preparation and

defense of the proposal requires the formation of a committee chaired by a member of the Urban and Regional Planning graduate faculty. An outside member on the committee, one who is not a DURP professor, is highly recommended. Students interested in pursuing Plan A should take the appropriate initiative to ensure steady progress throughout the proposal, research, thesis writing and oral presentation stages.

The Plan B (Capstone) option permits the student to take more formal coursework than is usually taken by the Plan A student. Plan B requires the student to specify a focus of his/her own choosing. The Department does not provide a list of appropriate focuses. Rather, each student is invited to formulate his or her own focus in consultation with the adviser. The focus should fall within or bridge the following areas of departmental and faculty specialization:

- *community planning and social policy*
- *environmental planning and natural resource management*
- *urban and regional planning in Asia and Pacific*
- *land use, transportation and infrastructure planning*
- *disaster management and humanitarian assistance*

Examples of focuses are: social impact assessment, housing, environmental mediation, historic preservation, energy planning, planning information systems, urban design, community participation in planning, and agricultural land-use planning. A student is to take a minimum of three courses which contribute to the Capstone. The student pursuing Plan B must identify the focus of the Capstone and form a committee by the mid-point of graduate work, i.e., prior to enrolling in that course which results in a total of 24 credits applying toward the degree. The focus may be changed, and with it the committee, although substantial changes in focus may require additional coursework. A student in the Plan B option must be enrolled for at least one credit in the semester in which he/she desires to graduate.

The appropriate combination of faculty on a student's committee and of courses in a student's curriculum will depend on the field of interest and the focus he/she specifies. It will frequently be advisable to have a faculty member from outside the Department serve on the Plan B committee. It is generally the case that coursework outside the Department's offerings is beneficial to the Capstone.

The Plan B option requires the preparation of a Capstone paper. The purpose of this paper is to demonstrate a depth of knowledge and competence in an area of planning sufficient to enable the student to directly enter into professional practice and/or advance to higher levels of education in the identified focus. A Capstone paper (Plan B) is differentiated from an MA thesis (Plan A) in three ways. The Capstone paper is usually shorter in length, and is normally expected to be no more than 75 pages, including figures and appendices. Second, its purpose is to show competence in a sub-field rather than test a hypothesis or develop new concepts or theories through primary data collection. Third,

it is generally best suited for students who intend to finish graduate studies in planning at the MA level and seek professional careers outside of academia rather than continue on to PhD studies and careers in university level planning education.

The formulation and writing of a Capstone involves three components: first, the demarcation of the Capstone through an identification of its major planning concerns and historical evolution; secondly, a critical analysis of a specific set of planning issues which draws upon theories, concepts and methods of analysis in the Capstone; and third, recommendations for further action and/or analysis. The mode of presentation of these three components of an Capstone will vary according to the specific focus and intended contribution of each paper. Some papers may be directed toward recommending a course of action to address a specific issue, such as formulating a housing policy for the homeless or community-based approaches to environmental management. They may also involve the preparation of a development plan to, for example, preserve areas of cultural or historical significance. Others may focus on monitoring and evaluation techniques with reference to an existing plan, such as the Hawai'i State Plan, or a planning process, such as the planning and implementation of a land-use or regional development program. Examples of each of these types of Capstone formats can be obtained upon request from the Department. Regardless of the specific intentions of a Capstone paper, students will be expected to show competence in bringing theories and concepts of the focus to bear on the topic in question.

The focus of the Capstone is expected to be a sub-area of planning that falls within one or combines elements of the four major curriculum distribution streams at DURP: community planning and social policy, environmental and natural resource management, urban and regional planning in Asia and the Pacific, land-use, transportation and infrastructure planning. Students, with the approval of their advisors, are required to take a minimum of 12 credits of graduate level courses relating to the focus of their Capstone. The identification of the area of focus, which is expected to be accomplished no later than the beginning of the second year of studies, is to be carried out with the student's adviser in concert with Capstone committee members. The appropriate combination of both faculty for the three-member committee and the set of courses required for the Plan B option will depend on the specific interests of each student. Because the Capstone often partly involves elements of specialized knowledge from outside the Department, students are frequently advised to integrate courses in other departments into their Capstone preparation and to consider having one outside faculty member on their committees.

In addition to the Capstone paper, students taking the Plan B option are required to prepare supplemental written materials demonstrating development of competence in the focus area. These materials, which may include papers prepared for courses, are to be submitted to each student's Capstone committee for critical review during the last semester of study and before the presentation of the Capstone paper. Upon approval of these materials by the committee, and after acceptance of a final draft of the Capstone paper by the committee, a final oral examination is scheduled.

The process described here has been demonstrated to be quite efficient for both students and faculty. It permits considerable focusing of each student's curriculum, provides flexibility, assures attention to desired knowledge and skill objectives, and results in improved predictions regarding when students can expect to graduate.

M. PLAN A (THESIS) ADMINISTRATION

The following steps describe the sequence of events for those students who choose the Plan A (Thesis) option. Each is to be initiated by the student with his/her adviser.

STEPS

1. *FORM I (Preliminary Advising).*
2. *Decision to pursue Plan A option made during second semester of student's tenure.*
3. *FORM II (Advancement to Thesis Stage).*
4. *Tentatively select topic, prepare brief outline describing approach, and discuss with adviser or other faculty.*
5. *Form Plan A committee and designate committee chairperson (done by mutual consent).*
6. *FORM III (Final Examination and Approval of Thesis).*
7. *Preparation of research design.*
8. *Committee meets with student to discuss research design and clarify expectations.*
9. *Schedule and announce final oral examination (giving Department faculty and students at least one week's notice).*
10. *Final oral examination.*
11. *Complete output standards. Certifies that student has met Department output standards (consult page 6 for output standards).*
12. *Final preparation of thesis consistent with Office of Graduate Education regulations.*
13. *Judgment of the content of the thesis.*

N. THE MURP CURRICULUM IN BRIEF

Will be different starting from Fall 2016. See back page for more information.

Requirements	Courses or Steps in Meeting Requirements			
Prerequisite	Descriptive/Inferential Statistics			
Core Courses (3)	<u>PLAN 600</u> Public Policy and Planning Theory	<u>PLAN 601</u> Planning Methods	<u>PLAN 603</u> Urban Economics	
Distribution Courses (2 of 4)	<u>PLAN 610</u> Community Planning and Social Policy	<u>PLAN 620</u> Environmental Planning and Policy	<u>PLAN 630</u> Urban and Regional Planning in Asia	<u>PLAN 640</u> Land Use Policies and Programs
Planning Practicum (1 six-credit sequence)	<u>PLAN 751</u> (6 credits) Seminar in Planning Practicum		<u>PLAN 754</u> (6 credits) Urban Design Studio	
Additional Methods Course related to Capstone or Thesis	<u>Examples</u>	PLAN 473 - GIS for Community Planning PLAN 605 - Planning Models * PLAN 624 - Environmental Valuation and Policy PLAN 652 - Policy Implementation and Program Evaluation PLAN 655 - Planning Research Methods PLAN 673 - Information Systems for Disaster Management and Humanitarian Assistance GEOG 375 - Introduction to Cartography and Airphoto Methods GEOG 470 - Remote Sensing		
	(Note: *Students in the land use or environment streams will be required to take PLAN 605. Courses can be from DURP or another Department)			
Degree Option (A or B)	<u>PLAN A</u> Select Topic; PLAN 650: Research Design Seminar PLAN 700 (6): Thesis Research Final Examination		<u>PLAN B</u> Select Capstone; Three courses related to Capstone; Capstone proposal and paper Final Examination	
Output Standards	Certified as having been met			
Total Credit Hours	Minimum of 42 credit hours (including at least one credit taken during the semester in which student intends to graduate)			

O. PLAN B (NON-THESIS) ADMINISTRATION

The following steps describe the sequence of events for those students who choose the Plan B (non-thesis) option. Each is to be initiated by the student with his/her adviser.

STEPS

1. *Set up a preliminary conference.*
2. *Discuss proposed Plan B Capstone and possible paper topic with adviser during the second semester of student's tenure.*
3. *Submit brief description of Capstone and curriculum to faculty who are prospective members of the Plan B committee.*
4. *Form Plan B committee and designate committee chairperson (by mutual consent).*
5. *Complete Master's Committee form for Office of Graduate Education.*
6. *Prepare a statement that describes the Capstone, proposed curriculum, and paper topic.*
7. *Meet with Committee to review proposed Capstone and discuss student's proposed curriculum.*
8. *Discuss additional requirements with adviser, if any (such as revisions to the Capstone or paper topic, additional work experience or course work.)*
9. *Distribute AOC paper and supporting evidence to committee.*
10. *Schedule and announce final oral examination (giving Department faculty and students at least one week's notice).*
11. *Conduct final oral examination.*
12. *Committee Chair certifies that student has met output standards.*
13. *Final Checklist completed and submitted to Office of Graduate Education.*

P. COURSE STREAMS

Required and elective courses related to the department's four course streams.

Community Development Planning

PLAN 610	Community Planning and Social Policy (3)
PLAN 615	Housing (3)
PLAN 616	Community-Based Planning (3)
PLAN 618	Community Economic Development (3)
PLAN 619	Multiculturalism in Planning and Policy (3)
PLAN 627*	Negotiation and Mediation in Planning (3)
PLAN 628*	Urban Environmental Problems (3)
PLAN 632*	Planning in Hawai'i and Pacific Islands (3)
PLAN 639*	Community-Based Natural Resource Management (3)
PLAN 641*	Neighborhood and Community Land Use Planning (3)
PLAN 652*	Policy Implementation and Program Evaluation (3)
PLAN 661	Collaboration Between Sectors (3)
PLAN 672	Humanitarian Assistance: Principles, Practices, and Policy (3)

Environmental Planning and Sustainability

- PLAN 605* Planning Models (3)
- PLAN 620 Environmental Planning and Policy (3)
- PLAN 624 Environmental Valuation and Policy (3)
- PLAN 625 Climate Change, Energy, and Food Security in the Asia/Pacific Region (3)
- PLAN 626 Topics in Research Management (3)
- PLAN 627* Negotiation and Mediation in Planning (3)
- PLAN 628* Urban Environmental Problems (3)
- PLAN 637* Environment and Development (3)
- PLAN 652* Policy Implementation and Program Evaluation (3)
- PLAN 654* Applied Geographic Information Systems: Public Policy and Spatial Analysis (3)

- PLAN 670 Interdisciplinary Seminar in Disaster Management & Humanitarian Assistance (3)

- PLAN 671 Disaster Management: Understanding the Nature of Hazards (3)

International Development Planning

- PLAN 630 Urban and Regional Planning in Asia (3)
- PLAN 632* Planning in Hawai'i and Pacific Islands (3)
- PLAN 633 Globalization and Urban Policy (3)
- PLAN 634 Shelter and Services in Asia (3)
- PLAN 636* Culture and Urban Form in Asia (3)
- PLAN 637* Environment and Development (3)
- PLAN 638 Asian Development and Urbanization (3)
- PLAN 639* Community-Based Natural Resource Management (3)
- PLAN 652* Policy Implementation and Program Evaluation (3)

Land Use, Transportation and Infrastructure Planning

- PLAN 605* Planning Models (3)
- PLAN 636* Culture and Urban Form in Asia (3)
- PLAN 640 Land Use Policies and Programs (3)
- PLAN 641* Neighborhood and Community Land Use Planning (3)
- PLAN 642 Planning Urban Infrastructure (3)
- PLAN 645 Land Use Planning (3)
- PLAN 648 Urban Transportation Policy and Evaluation (3)
- PLAN 652* Policy Implementation and Program Evaluation (3)
- PLAN 654* Applied Geographic Information Systems: Public Policy and Spatial Evaluation (3)

Disaster Management and Humanitarian Assistance (DMHA)

- PLAN 473 Geographic Information Systems for Community Planning

*courses listed in more than one stream

Q. PLANNING PRACTICUM

Every MURP degree candidate is required to take a practicum: PLAN 751 or 754. Practicum involves five or more students and a faculty member engaging in a planning process.

Each practicum produces a final report and/or provides specific clients with planning assistance such as analyses, surveys, design and/or evaluation. Each practicum team is involved in bounding a selected problem, setting its objectives, assessing its own resources, determining the work to be performed, allocating its resources, delivering a product and/or service, and evaluating its effectiveness. The practicum provides a student with an opportunity to bring together multiple planning elements within the context of a real-world problem. MURP degree students opting for PLAN 752 are also required to take a planning practicum.

R. DOUBLE DEGREES

A student may pursue a MURP degree and another degree concurrently. Assuming the fields are closely related some credits can be counted toward both degrees. A limited number of credits acquired in pursuit of a UH graduate degree recently awarded in a related field can also be considered for application to the MURP degree. A student interested in seeking two degrees is urged to consult with a member of the Department faculty at the earliest possible date. Since permission is also required from the Office of Graduate Education, consultation with that office before applying for the second degree is highly advisable.

S. PLANNING EXPERIENCE

Almost all MURP degree candidates have planning experience upon entrance into the program or acquire it during residence.

Such experience outside the classroom, including exposure to decision-making processes, political constraints, interest group operations, data limitations and deadlines, is of critical importance in planning education. Many students work part-time in planning agencies or consulting firms while pursuing their MURP degree. Credit can be given for academically suitable service learning projects and participatory action research to students taking Plan 752 (variable credits) under the direct supervision of an instructor. Projects may include planning research assistance to public, private, and community partnerships.

T. THE CERTIFICATE IN PLANNING STUDIES

The Certificate in Planning Studies allows students pursuing a master's or doctoral degree in a related field to become acquainted with planning skills and activities. Students enrolled in graduate programs in architecture, economics, engineering, geography, political science, public health, social work, and sociology are among those eligible. Students are

encouraged to use the certificate program to increase their competence in planning as it relates to their major area of study. The individual student's program can be designed so as to build upon his/her educational background and professional interests.

Planning Studies certificate students are required to take five courses offered by the Department and complete the requirements for a master's degree in their area of study. The three required courses are:

- *PLAN 600 (Public Policy and Planning Theory)*
- *PLAN 601 (Planning Methods)*
- *PLAN 751 (Planning Practicum, 6 credits).*

The remaining two courses are to be selected from among the following courses by the certificate student in consultation with the faculty member responsible for directing the Planning Studies Certificate Program:

- *PLAN 603 (Economic Analysis for Urban and Regional Planning)*
- *PLAN 610 (Community Planning and Social Policy)*
- *PLAN 620 (Environmental Planning and Policy)*
- *PLAN 630 (Urban and Regional Planning in Asia)*
- *PLAN 640 (Land Use Policies and Programs)*
- *An elective planning course*

Successful completion of the program leads to a master's or doctoral degree in the student's chosen field and a Certificate in Planning Studies. The Certificate is awarded in the same semester in which the candidate receives his/her master's or doctoral degree. If a student subsequently pursues the MURP degree, he/she will be requested to turn in the Certificate in Planning Studies at the time the MURP degree is awarded.

A student accepted in one of the affiliated or related master's or doctoral degree programs and interested in admission to the certificate program should:

1. Arrange for an interview with the faculty member responsible for directing the Planning Studies Certificate Program
2. File an application for admission as soon as possible.

U. THE PROFESSIONAL CERTIFICATE IN URBAN AND REGIONAL PLANNING

The Professional Certificate in Urban and Regional Planning is designed primarily to allow practitioners currently employed in the public, private or voluntary sector, who have had at least three years of experience in planning or a related field, to pursue academic studies in urban and regional planning. The program allows participants in Hawai'i to continue working full-time while taking the course work primarily in the evenings supplemented by occasional Saturday morning sessions. Further, participants from developing countries who cannot spend two years earning a MURP degree are able to earn a certificate in nine months.

The Professional Certificate in Urban and Regional Planning requires 18 credits including three core and three elective courses. The core courses include: PLAN 600 (Public Policy and Planning Theory), PLAN 601 (Planning Methods), and PLAN 603 (Economic Analysis for Urban and Regional Planning). Each candidate selects a field of interest from the Department's four concentrations: Community Planning and Social Policy, Environmental Planning and Resource Management, Development Planning in Asia and the Pacific, and Land Use and Infrastructure Planning. The first elective must be chosen from among the following four courses: PLAN 610 (Community Planning and Social Policy), PLAN 620 (Environmental Planning and Policy), PLAN 630 (Urban and Regional Planning in Asia), and PLAN 640 (Land Use Policies and Programs). The remaining two electives are selected in consultation with the candidate's faculty advisor.

Individuals interested in pursuing the Professional Certificate in Urban and Regional Planning apply for admission to the Office of Graduate Education as special non-degree students. A candidate who obtains the Professional Certificate may subsequently choose to seek the MURP degree and apply the credits already earned toward that degree. At the time the MURP degree is awarded the student would be requested to turn in the previously earned certificate.

Those interested in pursuing the Professional Certificate in Urban and Regional Planning should obtain additional information from the Department and arrange for an interview with a member of the faculty.

V. DISASTER MANAGEMENT AND HUMANITARIAN ASSISTANCE CERTIFICATE

The DMHA certificate is a 16 credit certificate that provides an academic course of study aimed at building Disaster Risk Reduction competence and professionalism. Combining existing courses across campus that provide disciplinary perspectives on hazards, disasters and risk reduction with focused coursework and seminars in core areas of disaster management and humanitarian assistance results in a rigorous and productive graduate level curriculum. Students graduating with recognized skills in disaster risk reduction will find career opportunities in the public and private sectors, from the local to the international arenas.

W. UNCLASSIFIED STUDENTS

A person not enrolled as an advanced degree student at the University may register as an unclassified graduate student and take graduate courses in the Department. Information on the procedure may be obtained directly from the Department. An application, certification of a previously earned degree from an accredited college or university, and transcripts are required. The application deadline is July 15th for the fall semester and December 15th for the spring semester. Up to 12 credits earned as an unclassified student may be transferred to the MURP degree program if the student later is admitted as a degree candidate and obtains Office of Graduate Education approval.

X. PERSONS NOT REGISTERED AS STUDENTS

A person who is neither a classified nor an unclassified student may take urban and regional planning courses (600 and above) through the Outreach College, with the permission of the Department, provided that he/she has graduated from an accredited college or university in the United States or Canada or, if from a foreign college, meets the English language requirements established by the Outreach College. Those desiring to register in this manner should contact the Department well before the beginning of the semester in which they wish to enroll. Such a student is required to obtain a Permission to Enroll form from the Department and to submit that form to the Outreach College when registering for the course. Registration is to occur on or before the first day of classes. Tuition and fees are paid directly to the Outreach College.

Y. EVENING AND LATE AFTERNOON CLASSES

The Department will endeavor to offer two to four courses each semester in the late afternoon or early evening in order to provide an opportunity for practicing professionals and others to supplement their education and training and earn credits toward the Professional Certificate in Urban and Regional Planning. Different courses will be offered each semester. In order to enroll in such courses an individual must be a classified graduate student (accepted into an advanced degree program), an unclassified graduate student or registered through the Outreach College. Persons interested in taking such courses should qualify themselves as soon as possible. See Section F relating to admission as a classified graduate student, Section T relating to admission as an unclassified graduate student and Section U relating to registration through the Outreach College.

Z. RESEARCH AND SERVICE

Members of the Department are active in research programs and planning practice that enhance planning education through curriculum development and in-class discussions of current planning issues. Faculty members are also involved in a wide range of service activities.

Research Projects:

In Hawai'i and the U.S.

- Native Hawaiian Ethnographic Study for Geothermal Project Puna and South Maui (funded by the U.S. Department of Energy)
- Native Hawaiian Externality (Hawai'i Electric Company)
- Native Hawaiians, local cultural assessment and environmental risk (partially funded by the State Department of Health)
- Native Hawaiian sanctuaries and places of refuge and community-based development and peace and justice (partially funded by the S.M. Matsunaga Institute for Peace)

- Alternative for coastal tourism in Hawai‘i (funded by the National Coastal Research and Development Institute)
- Assessment of the Honolulu Rapid Transit proposal
- Preparation of the State Ocean Resource Management Plan
- Important Agricultural Land Study for Land Use Commission
- Commuter exposure to motor vehicle exhaust (funded by WHO)
- Financial impacts of energy-efficient mortgages and state energy tax credits (funded by the Department of Business, Economics Development and Tourism)
- Study of seat belt use, child safety seat use, and motorcycle helmet use in Hawai‘i (funded by the Department of Transportation)
- Building an information system on motor vehicle accidents in Hawai‘i (funded by the Department of Transportation)
- Development of a computer based system for managing, communicating, and analyzing information (funded by the State Department of Business, Economic Development and Tourism)
- Community study, Hanapepe (funded by the Office of State Planning)
- Tourism and Infrastructure Study (Western Governor’s Association)
- Assessment of Hawai‘i’s land use management system
- Evaluation of the Hawai‘i Community Foundation/Mott Foundation’s Neighborhood Small Grants Program (funded by the Governor’s Office of Children and Youth)
- Evaluation of the Hawai‘i State Family Planning Centers system and community-based family center programs (funded by the Department of Human Services)
- Impacts Assessment of the Governor’s Office of Child and Youth’s Open Doors Project (funded by the Governor’s Office of Children and Youth)
- Status of Women in Hawai‘i (funded by UH Social Sciences Research Institute)
- Governor’s Molokai Subsistence Taskforce (funded by the State Department of Business, Economic Development and Tourism)

In Asia and the Pacific

- Training for livable cities in Asia, with a focus on Vietnam (Ford Foundation; Korea Research Institute for Human Settlements)
- International Migration and the Globalization of the Household in Asia (Ewha University, Korea; Hokkaido University Japan; National Taiwan University; National University of Singapore; University of the Philippines)
- Public and Civic Space in Asia (Ford Foundation; National University of Singapore; National Taiwan University)
- Rural-urban Linkages (UNESCAP)
- Urban Ecology (United Nations University)
- Mega-Urban Region Dynamics in Pacific Asia (National University of Singapore)

Service: faculty members are involved in a wide range of service activities, including

- Work with a number of legislative committees and state and county advisory agencies on planning problems (such as homelessness, housing and community-based development, community health, land supply, mixed land uses, small town and island rural planning, development plans, social policy, state growth policies and functional plans).
- Work with public agencies and community groups (such as Department of Health, Office of Hawaiian Affairs, Health and Community Services Council, Alu Like Inc., Department of Human Services, Department of Business, Economic Development and Tourism, the Office of Special Ministry for the Catholic Diocese, neighborhood housing services, native Hawaiian organizations such as the Native Hawaiian Legal Corporation, Hawai'i Community Foundation, the Queen Lili'uokalani Children's Center, and the Queen Emma Foundation, environmental organizations, citizen planning groups and neighborhood boards) in addressing management and planning issues.
- Research on the impact of tourism development in Pacific Islands (funded by Greenpeace).
- Community outreach for the Social Sciences.

AA. LIBRARY (DOCUMENT CENTER)

The Department supports its own document collection located in the department office complex. Students are also encouraged to use the University library system. The University library system contains three special large government documents collections and United Nations materials (the library is a major U.N. repository). Other collections are also open to student use including those maintained by the Department of Architecture, the Law School, the City and County Municipal Reference Library, and the State Legislative Reference Bureau.

BB. PHYSICAL FACILITIES AND EQUIPMENT

Department facilities are located on the ground floor of Saunders Hall on the University of Hawai'i's campus. In addition to offices for the faculty and administrative staff and the Document Center, the complex includes separate study and storage facilities for students, a planning studio-laboratory, print center, a small conference area, classrooms, and several research offices. The student study area is carpeted, air conditioned, and open to DURP students at all hours. Department word/data processing hardware includes Macintosh and IBM computers and printers available to faculty and students. There is also a workstation laboratory with GIS hardware and software. The Department also has a variety of software for word/data processing, communications and graphics.

CC. FACULTY AND AREAS OF SPECIALIZATION

The faculty represents a range of backgrounds, training, experience, and interests. Included are members who have had extensive practical as well as academic experience in a variety of geographical areas and among different cultures. Almost all of the faculty have worked overseas at one time or another in their careers. Most have worked closely with government agencies, some as staff members, as well as at the community level. Most are called on to serve in advisory capacities to governmental agencies, legislative bodies and community groups. All have served in a consulting capacity on planning projects. All are involved in ongoing research, usually at an applied level, and in publishing research findings and conclusions.

Makena Coffman, Associate Professor of Urban and Regional Planning
(Ph.D. 2007, University of Hawai'i at Mānoa), (808) 956-2890,
email: makenaka@hawaii.edu

- *Environmental economics and planning, energy and climate change policy, resource management, and general equilibrium modeling.*

Ashok Das, Assistant Professor of Urban and Regional Planning
(Ph.D. 2008, UCLA), (808) 956-4265, email: ashokdas@hawaii.edu

- *Community participation and empowerment, slum upgrading, decentralization and local governance, and the role of civil society in development.*

Priyam Das, Assistant Professor of Urban and Regional Planning
(Ph.D. 2009, UCLA), (808) 956-5367, email: priyam@hawaii.edu

- *Urban development, urban environmental services and governance in South Asia, design and planning of the built environment.*

Tom Dinell, Professor Emeritus of Urban and Regional Planning
(M.P.A. 1950, Michigan), (808) 956-7381, email: dinell@hawaii.rr.com

- *Planning theory, citizen participation, social policy, professional practice, and conflict resolution.*

Michael Douglass, Professor Emeritus of Urban and Regional Planning
(Ph.D. 1982, UCLA), (808) 956-6866, email: michaeld@hawaii.edu

- *Urbanization in Asia, rural-urban linkages, spatial planning theory, community and civic space, and international migration.*

Peter Flachsbart, Associate Professor of Urban and Regional Planning
(Ph.D. 1971, Northwestern), (808) 956-8684, email: flachsba@hawaii.edu

- *Planning methods and models, environmental planning, energy, land use planning, and urban transportation planning.*

Dolores Foley, Associate Professor and Chair of Urban and Regional Planning
(Ph.D. 1989, University of Southern California), (808) 956-2780,
email: dolores@hawaii.edu

- *Community Planning, social policy, conflict resolution and citizen participation.*

Karl E. Kim, Professor of Urban and Regional Planning
(Ph.D. 1987, MIT), (808) 956-6865, email: karlk@hawaii.edu

• *Planning theory, planning methods, infrastructure planning, disaster management & humanitarian assistance, and alternative tourism planning.*

Reginald Y. Kwok, Professor of Asian Studies, and Urban and Regional Planning
(Ph.D. 1973, Columbia), (808) 956-6867, email: rkwok@hawaii.edu

• *Political Economy of Chinese development and urbanization, globalization in East Asia, urban economic and spatial development, and cultural impact on urban forms.*

G. Kem Lowry, Professor Emeritus of Urban and Regional Planning
(Ph.D. 1976, University of Hawai'i), (808) 956-7381, email: lowry@hawaii.edu

• *Alternative dispute resolution, coastal management, planning theory, plan implementation and evaluation, and community-level planning.*

Luciano Minerbi, Professor of Urban and Regional Planning, AICP, AAIA
(Dott. Arch, 1966, Milano; MUP 1969, Washington), (808) 956-6869,
email: luciano@hawaii.edu

• *Comparative urbanism, settlement planning, environmental planning, urban design, community development, planning with indigenous people, and Pacific Islands planning*

Suwan Shen, Assistant Professor of Urban and Regional Planning
(Ph.D. 2014, University of Florida - Gainesville), (808) 956-6868,

• *Geographical Information Systems, climate change adaptation, sustainable and resilient transportation planning.*

Daniele Spirandelli, Assistant Professor of Urban and Regional Planning
(Ph.D. 2014, University of Washington), (808) 956-6866,

• *Patterns of Urban Development, Interface between terrestrial and marine ecosystems. Community planning for integrated water management and coastal ecosystem services.*

Karen Umemoto, Professor of Urban and Regional Planning
(Ph.D. 1998, MIT), (808) 956-7383, email: kumemoto@hawaii.edu

• *Community planning, planning theory, social policy, community economic development, and race in ethnic relations.*

DD. COOPERATING FACULTY

Cooperating faculty hold full-time regular appointments in other academic units of the University of Hawai'i at Mānoa or at the East-West Center and teach planning-related courses in their own disciplines or conduct planning-related research or provide planning-related community services.

These faculty members are among those available to serve on student Plan A or Plan B committees:

Denise Antolini, Professor of Law and Director of Environmental Law Program,
Environmental law and policy

David L. Callies, Professor of Law
Land use management and control, intergovernmental relations

William Chapman, Professor of American Studies, Director of Historic Preservation
Historic preservation

Michael P. Hamnett, Executive Director Research Corporation of University of Hawai'i at Mānoa
Environmental management, policy research management, ocean and coastal management

Bruce Houghton, Professor of Volcanology,
Processes involved in explosive volcanic eruptions, patterns of behavior in erupting volcanoes

M. Casey Jarman, Associate Professor of Law
Environmental law, ocean law, legal writing

Nancy Lewis, Director of Research, East-West Center
Geography of health and disease, marine resource utilization and management, and women in development

James McCutcheon, Professor of American Studies and History
Social, cultural and urban history

Mary Grace McDonald, Associate Professor of Geography
Agricultural change, social theory, political geography, Japan

Davianna McGregor, Associate Professor of Ethnic Studies,
Land use and management related to indigenous communities, indigenous rights, cultural resource mapping, natural resource management, cultural impact studies

Deane Neubauer, Professor Emeritus of Political Science
Political analysis, appraisal of health care delivery systems, policy discourse, alternative economic development and political economy in Hawai'i

Lawrence H. Nitz, Professor of Political Science
Public policy and political economics

Krisna Suryanata, Associate Professor of Geography
Political ecology, agro-food systems, rural development, community-based resource management

Majid Tehranian, Professor of Communications
Communications planning

William Wood, Professor of Public Health
International public health planning

EE. PREREQUISITE STATISTICS

A foundation in statistical methods is required for the MURP degree. An introduction to descriptive/inferential statistics is a prerequisite for enrolling in PLAN 601, PLAN 605, PLAN 654, and 655. Courses that have been identified as meeting this prerequisite include:

BUS 310 Statistical Analysis for Business Decisions
ECON 321 Introduction to Statistics
GEOG 380 Analytical Methods in Geography
SOC 476 Analysis in Social Statistics

Students should check with the Department about other statistics courses that they may desire to take to meet this requirement.

FF. COURSES IN URBAN AND REGIONAL PLANNING

A brochure is available from the Department prior to each semester's registration period that lists the courses described in this bulletin. The brochure also lists what courses are offered by whom, when, and where, as well as furnishing additional descriptive details. Graduate status or special permission is required for enrollment in all courses numbered 600 and above.

PLAN 101: SUSTAINABLE CITIES (3)

How do we plan and design cities to meet our long-term economic and environmental needs? In Sustainable Cities, students will learn how sustainability applies to key urban issues like energy, transportation, land, and food.

PLAN 310: INTRODUCTION TO PLANNING (3)

Introduction to urban and regional planning. Examination of why people plan and what happens when they do. Emphasis on planning in Hawai'i, but cases from the mainland and other countries are reviewed as well. This course provides an opportunity for students to explore the nature of the planning profession and whether they wish to pursue a career in planning. (Cross-listed as GEOG 310)

Pre: junior standing or consent.

**PLAN 399:
DIRECTED READING IN PLANNING (V)**

Independent research on topics in urban and regional planning.
Pre: PLAN 310.

**PLAN 412:
ENVIRONMENTAL IMPACT ASSESSMENT (3)**

Introduction to analytical methods for identifying, measuring, and quantifying the impacts of changes or interventions in resource, human-environment, and other geographic systems. (Cross-listed as GEOG 412)
Pre: Junior standing or consent.

**PLAN 414:
BUILDING COMMUNITY RESILIENCE (3)**

This course is intended to give a good understanding of the natural forces behind the most common natural disasters, and the human actions that reduce or increase vulnerability to natural disasters. (Cross-listed as GEOG 414)
Pre: Junior standing or consent.

**PLAN 421:
URBAN GEOGRAPHY (3)**

This course exposes students to origins, functions, and internal structure of cities. Throughout the course, students will discuss problems of urban settlement, growth, decay, adaptation, and planning in different cultural and and historical settings. Students learn about the dynamics of urban land use and the role of policies and perceptions in shaping towns and cities. (Cross-listed as GEOG 421)
Pre: GEOG 102 or 151 or 330, or consent.

**PLAN 473:
GIS FOR COMMUNITY PLANNING (3)**

Exploration of Geographic Information Systems (GIS) Area Analysis techniques for spatial information management for community planning period. Students will learn the basic concepts and principles, and practical skills of GIS through lectures, discussions, and lab.
Pre: Junior standing or higher. Repeatable once.

**PLAN 488:
ASIAN CITIES: IMPACT OF CULTURE AND HISTORY ON URBAN DESIGN (3)**

Review of a variety of Asian cities, which includes an examination of how culture and history, the key determinants of urban design, impact selected Asian city scapes. (Cross-listed as ASAN 488)
Pre: PLAN 310 or ASAN 312 or consent.

**PLAN 495:
HOUSING, LAND, AND COMMUNITY (3)**

Microeconomic analysis of Honolulu land & housing, e.g., land price, affordable housing, speculation, leasehold conversion, rent controls, NIMBY, Hawaiian homelands, etc. (Cross-listed as ECON 495).

Pre: PLAN 310 or consent.

**PLAN 500:
DIRECTED STUDIES: MASTER'S PLAN B/C STUDIES (1)**

**PLAN 600:
PUBLIC POLICY AND PLANNING THEORY (3)**

This course is designed to (a) impart a historic and comparative perspective on the evolution of urban and regional development; (b) explore the spatial and built environment dimensions of society, planning, and policy; (c) assess the justifications for planning and differing processes of planning in the U.S. and Asia-Pacific with a focus on the role of the planner in policy formation and implementation. This course is repeatable twice.

**PLAN 601:
PLANNING METHODS (3)**

A basic methods class for graduate students in urban and regional planning. Topics covered include problem definition, research design, measurement theory, survey research, questionnaire design, data collection and interviewing techniques, database management, statistical reasoning, hypothesis testing, and computer applications in urban and regional planning. The course will involve the design, administration, and analysis of a survey.

Pre: ECON 321 or GEOG 380 or SOC 476. Repeatable once.

**PLAN 602:
ADVANCED PLANNING THEORY (3)**

Advanced planning theory course for Ph.D. students (others by petition) to prepare for careers in planning education and/or high level professional practice. Covers key contemporary public policy issues and themes from the perspective of values, explanations of the real world, policy alternatives and implementation.

Pre: Students taking this course must have passed PLAN 600 or equivalent (by petition) with a grade B or better.

**PLAN 603:
URBAN ECONOMICS FOR PLANNERS (3)**

Spatial economic theories, analyses and processes of urban and regional development, focusing on functions of urban region, urban spatial structure, urban growth, and regional development.

Pre: Consent is required. Some fundamental knowledge of geometry and microeconomics is strongly recommended. Repeatable once.

PLAN 604:**QUALITATIVE METHODS IN PLANNING (3)**

Course provides a general introduction to qualitative research methods for planning and planning research. Includes data collection method (focus groups, interviews, ethnography, participant observation, and participatory action research) and various analytic methods and approaches.

Pre: PLAN 601.

PLAN 605:**PLANNING MODELS (3)**

Students design and use spreadsheet models to analyze problems in urban and regional planning. The principal topics include: the use, role, and limitations of mathematical models in planning; basic decision models of choice and chance; cost-benefit and cost-effectiveness analysis for program and project evaluation; linear and nonlinear models used in making population projections; models used for optimization of economic activity; and simulation of urban phenomena.

Pre: ECON 321 or SOC 476 or GEOG 380; equivalent course in descriptive/inferential statistics, or consent. Repeatable once.

PLAN 606:**COMPARATIVE PLANNING HISTORIES (3)**

This course provides students with an overview of the history of urban and regional planning in the United States, Europe, and Asia, and the role that planning has played in shaping contemporary urban settlements.

PLAN 607:**INTRODUCTION TO PUBLIC POLICY (3)**

This course provides perspectives on policy analysis, which includes basic approaches to the study of public policy, political economy, and policy evaluation. (Cross-listed as POLS 670)

PLAN 608:**POLITICS AND DEVELOPMENT: CHINA (3)**

This course consists of three parts (a) key theories for socialist transition as basis for seminar discussion, (b) policy evolution to illustrate the radical changes, and (c) emerging and prominent current development and practice. (Cross-listed as ASAN 608, and POLS 645C)

Pre: One of PLAN 600, POLS 308 or POLS 341, or consent.

PLAN 610:**COMMUNITY PLANNING AND SOCIAL POLICY (3)**

Critical analysis of approaches to social policies, particularly as they affect issues of poverty and community development. Review of major debates in selected areas, including

welfare reform, employment, housing, education, and crime. Emphasis on innovative approaches that communities are taking in partnership with public and private sectors to address contemporary social problems.

Pre: PLAN 600 (or concurrent); or consent. Repeatable once.

**PLAN 615:
HOUSING (3)**

Examination of urban housing and homelessness from a political economy perspective, within the context of broader economic forces at work in the U.S. and internationally. Emphasis is on policy, planning and programs. Housing issues are considered in reference to the interests and actions of the actors involved—financial institutions, developers, government, landowners, and consumers. Focus primarily on the U.S. and Hawai‘i, with international comparisons.

Pre: PLAN 610 or consent.

**PLAN 616:
COMMUNITY-BASED PLANNING (3)**

This course explores planning and programmatic aspects of community-based development projects. East-West and local planning perspectives on participatory development and intentional communities are covered in this course.

Pre: PLAN 600 (or concurrent).

**PLAN 618:
COMMUNITY ECONOMIC DEVELOPMENT (3)**

Examines methods and strategies that communities can employ to develop economic opportunities consistent with their values and visions of “community”. Various approaches will be explored including cooperatives, microenterprises, community development finance institutions, and education and training programs.

Pre: Consent. Recommended to have taken PLAN 616. Repeatable once.

**PLAN 619:
MULTICULTURALISM IN PLANNING AND POLICY (3)**

This graduate seminar focuses on issues of governance, policy and planning in diverse multicultural societies. Differences in backgrounds, languages, privilege, preferences and values are often expressed in planning and policy controversies such as affirmative action and land use planning. This course will examine these controversies and explore theories of governance in a multicultural setting.

Pre: PLAN 600 or consent.

**PLAN 620:
ENVIRONMENTAL PLANNING AND POLICY (3)**

This course reviews environmental and natural problems of significance to urban and

regional planners. It is also a survey of the political, institutional, economic, and scientific aspects of planning and policies.

Pre: PLAN 600 (or concurrent) or consent. Repeatable once.

**PLAN 622:
ENVIRONMENTAL IMPACT ASSESSMENT (3)**

Theory and practice of environmental impact assessment is covered in this course, including policy and planning frameworks supporting environmental assessment in the U.S. and abroad. This course teaches cumulative environmental effects and strategic environmental assessment. (Cross-listed as GEOG 622)

Pre: Graduate standing

**PLAN 624:
ENVIRONMENTAL VALUATION AND POLICY (3)**

Builds valuation skills when assessing the best use, conservation, and policies relating to environmental planners. Tools introduced in this class include methods of environmental valuation such as hedonic pricing techniques, conjoint analysis, and other survey methods pertaining to situations of externalities or the provision of environmental goods.

Pre: PLAN 600, 603, or consent.

**PLAN 625:
CLIMATE CHANGE, ENERGY, AND FOOD SECURITY IN ASIA/PACIFIC REGION (3)**

Analysis of the planning responses to human-induced climate change and related environmental problems. This course is part of the Asia/Pacific Initiative and is taught in collaboration with Universities throughout the region via video-conference and an online learning system.

Pre: PLAN 620 (or concurrent) or consent.

**PLAN 626:
TOPICS IN RESOURCE MANAGEMENT (3)**

In this course, students will learn about issues, analytical techniques, and management strategies for different resource systems including land, water, energy, coastal resources, forests, and fisheries. The focus of this course varies from year to year.

Pre: Consent. Repeatable once.

**PLAN 627:
NEGOTIATION AND MEDIATION IN PLANNING (3)**

Identification of different methods for resolving environmental disputes in the public sector involving multiple actors. Development of skills in selecting and applying methods most appropriate for resolving particular disputes.

Pre: PLAN 600 or consent.

PLAN 628:

URBAN ENVIRONMENTAL PROBLEMS (3)

This is a seminar course that examines environmental problems associated with urbanization. It reviews strategic approaches and collaboration among key actors to address such problems.

Pre: PLAN 600 or consent.

PLAN 630:

URBAN AND REGIONAL PLANNING IN ASIA (3)

Key issues and policies in urban planning, national spatial planning, rural regional planning, and impacts of globalization on cities and regions in Asia. (Cross-listed as GEOG 630)

Pre: PLAN 603 or consent.

PLAN 632:

PLANNING IN HAWAII' AND PACIFIC ISLANDS (3)

This course explores urban and regional planning in island settings as well as governance, central and local planning, and indigenous cultures. Other topics that are covered in this course include compatible, sustainable, and affordable development in addition to sovereignty, local autonomy, and customary land rights. Land tenure, land use and native trusts are examined alongside infrastructure, village, settlement and town plan making. A main focus of the course is environmental management in island ecologies such as Polynesia, Melanesia and Micronesia.

Pre: Graduate standing.

PLAN 633:

GLOBALIZATION AND URBAN POLICY (3)

Students who take this course will be exposed to urbanization and urban policies in the Asia and Pacific region with a focus on the international dimension of national and local development. (Cross-listed as GEOG 633)

Pre: PLAN 630 or consent.

PLAN 634:

SHELTER AND SERVICES IN ASIA (3)

This course examines government and non-government organizations' responses to urban and rural shelter issues and services in Asia, with focuses on political economy, community participation, issues of access to land and resources, affordability and integration of social and physical improvements.

Pre: PLAN 630.

PLAN 636:

CULTURE AND URBAN FORM IN ASIA (3)

Cultural and historical impact on urban form, contention of tradition and modernity in urban space, spatial expression of state and society, perception and utilization of urban

design, evolution of urban form in selected Asian capitals. (Cross-listed as ASAN 636)
Pre: PLAN 310 or 600 or ASAN 312 or consent.

**PLAN 637:
 ENVIRONMENT AND DEVELOPMENT (3)**

Examines how theories and practice of development and environment have been produced, maintained, used, and challenged in Asia. The rise and fall of dominant development paradigms; emerging debates on development and environment in post-modern era; cases of community-based approach to environment and development planning. (Cross-listed as GEOG 637)

**PLAN 638:
 ASIAN DEVELOPMENT AND URBANIZATION (3)**

This course focuses on the relationship between national and urban development in Asia. It examines the political economy of development and urbanization, and reviews selected case studies of Asian industrializing economies. (Cross-listed as ASAN 638 and GEOG 638)

Pre: PLAN 630 or ASAN 600 (with a grade of B or above) or consent.

**PLAN 639:
 COMMUNITY-BASED NATURAL RESOURCE MANAGEMENT (3)**

Concepts and theories of community, resource access, and governance are discussed in this course along with the practical challenges to community-based natural resource management. (Cross-listed as GEOG 639)

Pre: Graduate standing.

**PLAN 640:
 LAND USE POLICIES AND PROGRAMS (3)**

Assessment of land use planning and community guidance in urban and regional settings in the U.S. evolution of land uses planning and contemporary practices. This course includes coverage of growth management and land use guidance systems. Review of legislative measures and land development impacts on the human, natural and built environment.

Pre: PLAN 600 and 601; or consent.

**PLAN 641:
 NEIGHBORHOOD AND COMMUNITY LAND USE PLANNING (3)**

Land use planning for urban neighborhoods and small towns. Theory and practice of neighborhood planning. Neighborhood and community dynamics, reinvestment and stabilization.

Pre: PLAN 640 or consent.

PLAN 642:

PLANNING URBAN INFRASTRUCTURE (3)

This course covers capital budgeting, project planning, and financing for large scale urban infrastructure.

Pre: PLAN 600, 601, and consent.

PLAN 643:

PROJECT PLANNING AND MANAGEMENT (3)

Examines project management in theory and practice and the roles and responsibilities of the project manager. Focuses on planning, organizing, and controlling the efforts of projects.

Pre: consent.

PLAN 645:

LAND USE PLANNING (3)

Issues and methods of urban land use planning practice and plan making.

Pre: PLAN 640 or consent.

PLAN 647:

URBAN AND REGIONAL PLANNING FOR SUSTAINABILITY (3)

Focus on ideology, conceptual models, accounting, framework, appropriate technologies, and indicators of planning for sustainability. Central and local policies, plans, and best practices in various countries and settings will be covered.

Pre: Graduate standing. Repeatable once.

PLAN 648:

URBAN TRANSPORTATION POLICY AND PLANNING (3)

Characteristics of urban travel and transportation systems. Theory and practice of urban transportation planning in developed and developing countries with emphasis on the U.S. and the Asia and Pacific region. Generating plans to improve access, mobility and safety; improving transportation system capacity and managing travel demand; evaluating and implementing transportation projects and programs.

Pre: PLAN 600 and 601; or consent.

PLAN 650:

RESEARCH DESIGN SEMINAR (3)

Preparation for thesis research; guidance through stages of research design and preparation of formal written proposal. Normally taken after admission to candidacy in MURP

Pre: Consent.

PLAN 652:

POLICY IMPLEMENTATION AND PROGRAM EVALUATION (3)

Implementation and evaluation in public policy analysis, philosophical and method-

ological issues, impact of policies and plans, use of evaluation research in program implementation

Pre: PLAN 601 or consent.

**PLAN 654:
APPLIED GEOGRAPHIC INFORMATION SYSTEMS: PUBLIC POLICY AND SPATIAL ANALYSIS (3)**

Use of advanced and specialized analytical methods and models in urban and regional planning. This course builds upon PLAN 601, but focuses on application of methods and models in such specialized areas as land use and transportation planning, economic development, and environmental planning and resource management. Geographic information software (GIS) is used in this course.

Pre: Graduate standing or consent.

**PLAN 655:
PLANNING RESEARCH METHODS (3)**

Advanced methods and deterministic and stochastic models used in urban and regional planning.

Pre: PLAN 601 and 605; or consent.

**PLAN 661:
COLLABORATION BETWEEN SECTORS (3)**

Examine theories and practices of multisector collaboration (public, private, nonprofit). The use of collaboration as an alternative way of solving public problems.

**PLAN 670:
INTERDISCIPLINARY SEMINAR IN DISASTER MANAGEMENT & HUMANITARIAN ASSISTANCE (3)**

Provides a background for understanding the diverse components of this dynamic and expanding field.

Pre: Graduate standing or consent.

**PLAN 671:
DISASTER MANAGEMENT: UNDERSTANDING THE NATURE OF HAZARDS (3)**

The objective of this course is to provide an insight on the types of hazards, and its forecasting, warning, and improved response system. This course focuses on the scientific understanding of the forces and processes underlying natural hazards. Emphasis is put on human attempts to respond to these through mitigation and planning activities. (Cross-listed as GG 604)

Pre: PLAN 670 or consent.

PLAN 672:

HUMANITARIAN ASSISTANCE: PRINCIPLES, PRACTICES, AND POLITICS (3)

Combined lecture and discussion course aimed at understanding the theoretical basis and working structure of humanitarian assistance programs and international responses to natural and human induced disasters.

Pre: PLAN 670 or consent.

PLAN 673:

INFORMATION SYSTEMS FOR DISASTER MANAGEMENT AND HUMANITARIAN ASSISTANCE (3)

Combined lecture and laboratory course in Disaster Management focusing on essential methodological and practical issues that are involved in spatial analyses using GIS and other information technologies to inform decision making related to natural disasters, and human attempts to respond to these through mitigation and planning activities.

Pre: PLAN 670 or consent.

PLAN 674:

DISASTER RECOVERY: THEORY AND PRACTICE (3)

Examination of how communities recover from disaster. Provides students with an overview of recovery theory and an understanding of how planners, policy maker, and ordinary citizens rebuild communities, cities, and nations following catastrophic events.

Pre: Graduate standing.

PLAN 675:

PRESERVATION: THEORY AND PRACTICE (3)

History and philosophy of the historic preservation movement. Analysis of values and assumptions, methodologies and tactics, implications for society, and public policy. (Cross-listed as AMST 675 and ARCH 628)

PLAN 676:

RECORDING HISTORIC AND CULTURAL RESOURCES (3)

Techniques in recording and evaluation of historic buildings and other resources, with an emphasis on field recordings and state and federal registration procedures. (Cross-listed as AMST 676 and ANTH 676)

Pre: Graduate standing or consent.

PLAN 677:

HISTORIC PRESERVATION AND PLANNING (3)

Local-level historic preservation, with an emphasis on historic districts, design guidelines, regulatory controls, and community consensus-building. (Cross-listed as AMST 677)

PLAN 678:

SITE PLANNING (3)

Fundamental principles that guide site planning, including planning and design determinants of the site, taking into account its regional context, site-specific characteristics and applicable codes, ordinances, and standards.

Pre: DURP students only.

PLAN 680:

LAND USE MANAGEMENT AND CONTROL (V)

Survey course of public land use management. (Cross-listed as LAW 580)

PLAN 699:

DIRECTED READING AND RESEARCH (V)

Pre: Consent of instructor and Department Chair. Repeatable.

PLAN 700:

THESIS RESEARCH (V)

Limited to students preparing MURP research under Plan A.

Pre: Consent.

PLAN 721:

HOMELAND SECURITY: TERRORISM (3)

Combined lecture and discussion course in the Disaster Management and Humanitarian Assistance track focusing on developing a multidisciplinary understanding of international terrorism and anti-terrorism planning and response.

Pre: PLAN 670 or consent.

PLAN 740:

SEMINAR IN PLANNING THEORY (3)

Special topics in planning theory, history, and analysis.

Pre: PLAN 600 or consent.

PLAN 741:

SEMINAR IN PLANNING PRACTICE (3)

Project planning, programming, and similar topics.

Pre: PLAN 600 and 601, or consent. Repeatable.

PLAN 751:

PLANNING PRACTICUM (6)

Practicum involving five or more students and a faculty member engaging in a planning process. Emphasis on dealing with an immediate set of planning issues. Group determines in consultation with faculty member: (1) bounds of the problem(s); (2) resources

available; (3) how the resources will be allocated; (4) what impact the group will seek to have; (5) services to be delivered or products to be produced; and (6) how it will work as a team to achieve its objectives. The group is involved in implementing, evaluating and reshaping its own plan of operation. Some capstones produce widely-disseminated, published reports, often for specific clients; others, especially those serving community groups, tend to produce analyses, draft testimony, surveys and guides. Topic varies.

Pre: PLAN 600, 601, and consent.

**PLAN 752:
DIRECTED PROJECT (V)**

Individual project in planning analysis, plan preparation and/or evaluation and policy/program evaluation.

Pre: PLAN 600, 601, and consent.

**PLAN 754:
URBAN DESIGN STUDIO (6)**

Practicum addressing selected planning problems. Emphasis on the physical planning aspects of urban functions, activity locations, land arrangements and building forms as they relate to life style, community self-reliance and local resources. Developing plans as a way to achieve public policy objectives. Prototypical solutions consistent with stated policy objectives explored at various community scales. Close contact with community organizations and public agencies active in the planning process. Meets DURP capstone requirement.

Pre: PLAN 640 or consent.

**PLAN 752V:
DISSERTATION RESEARCH (1)**

Research for doctoral dissertation.

Pre: Consent and must be PhD student. Repeatable.

GG. MURP REVISED CURRICULUM

Effective Fall 2016

The Curriculum in Brief				
Course requirements for the Master's Degree in Urban and Regional Planning (MURP)				
Prerequisite	Descriptive/inferential statistics			
Core Courses (All six 3-credit courses) 18 credits total	<u>PLAN 600:</u> Public Policy and Planning Theory	<u>Plan 601:</u> Planning Methods	<u>PLAN 603:</u> Urban Economics	
	<u>PLAN 620:</u> Environmental Planning and Policy	<u>PLAN 640:</u> Land Use Policies and Programs	<u>PLAN 678:</u> Site Planning	
Plan Creation Implementation Practicum (Choose one) 6 credits total	<u>PLAN 751:</u> Planning Practicum (6-credit course)		<u>PLAN 754:</u> Urban Design and Planning Studio (6-credit course)	
Research and Practice Methods Courses (Choose three with at least one from each category) 9 credits total	<u>Research Methods:</u> <u>PLAN 473:</u> GIS for Community Planning <u>PLAN 604:</u> Qualitative Methods in Planning <u>PLAN 605:</u> Planning Models <u>PLAN 655:</u> Planning Research Methods <u>PLAN 673:</u> Advanced GIS		<u>Practice Methods:</u> <u>PLAN 616:</u> Community-Based Planning <u>PLAN 627:</u> Negotiation and Mediation in Planning <u>PLAN 661:</u> Collaboration Between Sectors <u>PLAN 645:</u> Land Use Planning	
Electives (Choose four PLAN courses) 12 credits total	Choose four additional graduate level or upper division PLAN courses. Please note that any non-PLAN elective <i>must</i> be preapproved by the student's advisor.			
Degree Option (Choose one) 3 credits total	<u>PLAN A:</u> Select research thesis topic <u>PLAN 650:</u> Reserach Design Seminar <u>PLAN 700:</u> Thesis Research Final Examination		<u>PLAN B:</u> Select applied Capstone topic <u>PLAN 650:</u> Research Design Seminar Capstone proposal and paper; Final Examination	
Output Standards	Certified as having been met			
Total Credit Hours	Minimum of 48 credit hours (including at least one credit taken during the semester in which the student intends to graduate)			

Check prerequisites before planning course schedule.

Planning Course Streams

- Community Planning and Social Policy
- Environment Planning and Natural Resource Management
- Development Planning in Asia and the Pacific
- Land Use, Transportation and Infrastructure Planning
- Disaster Management and Humanitarian Assistance



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