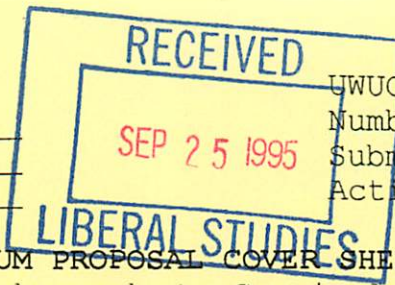


LSC Use Only

Number: \_\_\_\_\_

Submission Date: \_\_\_\_\_

Action-Date: \_\_\_\_\_



UWUCC USE Only

Number: \_\_\_\_\_

Submission Date: \_\_\_\_\_

Action-Date: \_\_\_\_\_

12  
95-32b  
APP-12/12/95  
Sen APP-2/6/96

CURRICULUM PROPOSAL COVER SHEET

University-Wide Undergraduate Curriculum Committee

I. CONTACT

Contact Person Gail S. Sechrist Phone 357-2250

Department Geography and Regional Planning--Planning

II. PROPOSAL TYPE (Check All Appropriate Lines)

\_\_\_\_\_ COURSE \_\_\_\_\_  
Suggested 20 character title

\_\_\_ New Course\* \_\_\_\_\_  
Course Number and Full Title

\_\_\_ Course Revision \_\_\_\_\_  
Course Number and Full Title

\_\_\_ Liberal Studies Approval+ \_\_\_\_\_  
for new or existing course Course Number and Full Title

\_\_\_ Course Deletion \_\_\_\_\_  
Course Number and Full Title

\_\_\_ Number and/or Title Change \_\_\_\_\_  
Old Number and/or Full Old Title  
New Number and/or Full New Title

\_\_\_ Course or Catalog Description Change \_\_\_\_\_  
Course Number and Full Title

PROGRAM:  Major  Minor  Track

\_\_\_ New Program\* \_\_\_\_\_  
Program Name

Program Revision\* Bachelor of Science--Regional Planning  
Program Name

\_\_\_ Program Deletion\* \_\_\_\_\_  
Program Name

\_\_\_ Title Change \_\_\_\_\_  
Old Program Name  
New Program Name

III. Approvals (signatures and date)

Gail S. Sechrist 9/11/95  
Department Curriculum Committee

Susan Fisher 9-11-95  
Department Chair

[Signature]  
College Curriculum Committee

[Signature] 9/25/95  
College Dean

+Director of Liberal Studies (where applicable)

[Signature] 12/11/95  
\*Provost (where applicable)

## Part II. Description of Curriculum Change

### 1) New Catalog Description

Majors in geography and regional planning each have a specific core curriculum that presents a structured approach to the field. Appropriate subfields or tracks are available in both programs to support different career options for majors. There are four tracks for the geography major and four tracks for the regional planning major.

- Regional Planning/Geographic Information Systems and Cartographer Track
- Geography/Geographic Information Systems and Cartographer Track
 

The Geographic Information Systems and Cartographer Track prepares students for employment as Geographic Information System Specialists, Facilities Managers, Cartographers, and Remote Sensing professionals. Course work includes methods for identifying, modeling, and analyzing the spatial organization of human and environmental systems from both practical and theoretical perspectives. Data collection, spatial information management, and graphic presentation are integral skills taught in track courses. Such skills could be used, for example, for analysis of wildlife habitat, utility facility management, or transportation system design and maintenance.
- Economic Developer Track
- Economic Geographer Track
 

The Economic Track provides a broad framework of ideas and theories in addition to a task-oriented approach to location analysis. Site planners articulate the needs of the community for economic space, the demands for convenient transport, the role of private enterprise, and the management of growth. This inter-related group of courses is useful to students because economic geographers and developers are expected to analyze the interactions of concepts and variables. Market analysis for the location of new shopping centers, for example, requires understanding of economic principles, population characteristics, and the local political milieu all in a spatial context.
- Environmental Planner Track
- Environmental Developer Track
 

The Environmental Track is designed to prepare majors in geography or regional planning for careers in environmental fields or graduate study that leads to a variety of environmental positions. Students who elect this track will acquire knowledge of the physical and human processes that shape the environment, strategies for analyzing environmental issues, and concepts that underlie strategies for ameliorating environmental problems. The skills acquired in this track will enable students to assess the causes, consequences, and solutions to a wide variety of environmental issues such as water pollution, acid rain, or tropical deforestation.
- Town Manager Track
 

The Town Manager Track is designed to prepare planning students for careers in local government and graduate work in public administration. Students electing this track will become familiar with the structure, operation and actions of municipal government and the political, organizational and institutional basis of municipal management and decision making. Skills acquired with this track will enable students to undertake a variety of analytic activities designed to describe, project and prescribe courses of action for municipal improvement.

### Bachelor of Science--Regional Planning/GIS & Cartographer Track

**Liberal Studies:** As outlined in Liberal Studies section 54-58

with the following specifications:

Mathematics: MA 121 or MA 217

Liberal Studies electives: CO/IM/BE 101 recommended, no courses with RP prefix

**College:**

Foreign Language Intermediate Level (1) 0-6

**Major:**

39

Required Courses in Planning:

- RP 213 Cartography I 3sh
- RP 316 Introduction to GIS 3sh
- RP 350 Introduction to Planning 3sh
- RP 352 Planning Methods 3sh
- RP 354 Planning Design 3sh
- RP 412 Research Seminar 3sh
- RP 458 Land Use Law 3sh
- RP 464 Land Use Policy 3sh
- RP 468 Planning Theory 3sh

Track Courses:

- RP 313 Cartography II 3sh
- RP 314 Map and Photograph Interpretation 3sh
- RP 415 Remote Sensing 3sh
- RP 417 GIS Applications Development 3sh

**Other Requirements:**

Internship (RP 493) strongly recommended 3-12

**Free Electives:**

27-31

**Total Degree Requirements 124**

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

## **Bachelor of Science--Regional Planning/Economic Developer Track**

**Liberal Studies:** As outlined in Liberal Studies section 54-58  
with the following specifications:

Mathematics: MA 121 or MA 217

Social Sciences: EC 121

Liberal Studies electives: EC 122, no courses with RP prefix

**College:** 0-6  
Foreign Language Intermediate Level (1)

**Major:** 39

Required Courses in Planning:

RP 213 Cartography I 3sh

RP 316 Introduction to GIS 3sh

RP 350 Introduction to Planning 3sh

RP 352 Planning Methods 3sh

RP 354 Planning Design 3sh

RP 412 Research Seminar 3sh

RP 458 Land Use Law 3sh

RP 464 Land Use Policy 3sh

RP 468 Planning Theory 3sh

Track Courses:

Four of the following:

GE 231 Economic Geography 3sh

GE 331 Population Geography 3sh

RP 332 Urban Geography 3sh

RP 333 Trade and Transportation 3sh

GE 334 Political Geography 3sh

**Other Requirements:**  
Internship (RP 493) strongly recommended 3-12

**Free Electives:** 27-31  
EC 383 Urban/Regional Economics recommended

**Total Degree Requirements** 124

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

### Bachelor of Science--Regional Planning/Environmental Planner Track

**Liberal Studies:** As outlined in Liberal Studies section 54-58  
with the following specifications:

Mathematics: MA 121 or MA 217

Liberal Studies electives: CO/IM/BE 101 recommended, no courses with RP prefix

**College:**

Foreign Language Intermediate Level (1) 0-6

**Major:**

39

Required Courses in Planning:

RP 213 Cartography I 3sh

RP 316 Introduction to GIS 3sh

RP 350 Introduction to Planning 3sh

RP 352 Planning Methods 3sh

RP 354 Planning Design 3sh

RP 412 Research Seminar 3sh

RP 458 Land Use Law 3sh

RP 464 Land Use Policy 3sh

RP 468 Planning Theory 3sh

Track Courses:

Four of the following:

RP 314 Map and Photograph Interpretation 3sh

GE 340 Fresh Water Resources 3sh

GE 341 Climatology 3sh

GE 342 Physiography 3sh

RP 415 Remote Sensing 3sh

GE 440 Conservation: Environmental Analysis 3sh

**Other Requirements:**

Internship (RP 493) strongly recommended 3-12

**Free Electives:**

27-31

**Total Degree Requirements**

124

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

### Bachelor of Science--Regional Planning/Town Manager Track

**Liberal Studies:** As outlined in Liberal Studies section 54-58  
with the following specifications:

- Mathematics: MA 121 or MA 217
- Social Science: PS 111 recommended
- Liberal Studies electives: GE 230, CO/IM/BE 101 recommended, no courses with RP prefix

**College:**

Foreign Language Intermediate Level (1) 0-6

Major: 39

Required Courses in Planning:

- RP 213 Cartography I 3sh
- RP 316 Introduction to GIS 3sh
- RP 350 Introduction to Planning 3sh
- RP 352 Planning Methods 3sh
- RP 354 Planning Design 3sh
- RP 412 Research Seminar 3sh
- RP 458 Land Use Law 3sh
- RP 464 Land Use Policy 3sh
- RP 468 Planning Theory 3sh

Track Courses:

- GE 231 Economic Geography 3sh
- RP 332 Urban Geography 3sh
  - PS 354 Metropolitan Problems 3sh
  - PS 355 Intergovernmental Relations 3sh
  - or
  - PS 370 Introduction to Public Administration 3sh
  - PS 371 Issues in Public Administration 3sh

**Other Requirements:**

Internship (RP 493) strongly recommended 3-12

**Free Electives:** 27-31

PS 251 State and Local Political Systems recommended

**Total Degree Requirements 124**

(1) Intermediate-level Foreign Language may be included in Liberal Studies electives.

2) Summary of Changes

a) Table Comparing old and new

REGIONAL PLANNING

**OLD**

**Bachelor of Science--Regional Planning**  
**Liberal Studies:** As outlined in Liberal Studies section with the following specifications: 54-55  
 Mathematics: MA 217 recommended  
 Natural Science: GS 101/102, 103/104 or GS 121/122, 131/132  
 Social Science: PS 111 recommended, EC 121  
 Liberal Studies electives: CO/IM/BE 101, no courses with GE prefix

**College:** 0-6  
 Foreign language Intermediate Level

**Major:** 36  
 Required courses:  
 GE 312 Research in Geography and Planning  
 GE 360 Introduction to Planning  
 GE 361 Planning: Basic Studies and Analysis  
 GE 462 Planning: Development, Principles, and Theory  
 GE 463 Planning: Design  
 GE 464 Land Use Policy

Controlled electives:  
 One course from GE 313-314  
 Three courses from GE 230, 231, 241, 331, 335, 336, 341, 342  
 Two courses from GE 313 or 314, 332, 415, 440

**Other Requirements:** 15-36  
 Interdisciplinary minor (21 sh) or  
 Minor in approved field (15-21 sh)  
 Internship (GE 493) strongly recommended

**Free Electives:** 0-19

**Total Degree Requirements:** 124

**NEW**

**Bachelor of Science--Regional Planning/GIS & Cartographer Track**  
**Liberal Studies:** As outlined in Liberal Studies section with the following specifications: 54-58  
 Mathematics: MA 121 or MA 217  
 Liberal Studies electives: CO/IM/BE 101 recommended, no courses with RP prefix

**College:** 0-6  
 Foreign Language Intermediate Level

**Major:** 39  
 Required courses:  
 RP 213 Cartography I  
 RP 316 Introduction to GIS  
 RP 350 Introduction to Planning  
 RP 352 Planning Methods  
 RP 354 Planning Design  
 RP 412 Research Seminar  
 RP 458 Land Use Law  
 RP 464 Land Use Policy  
 RP 468 Planning Theory

Track courses:  
 RP 313 Cartography II  
 RP 314 Map and Photograph Interpretation  
 RP 415 Remote Sensing  
 RP 417 GIS Applications Development

**Other Requirements:**  
 Internship (GE 493) strongly recommended

**Free Electives:** 27-31

**Total Degree Requirements:** 124

**Bachelor of Science--Regional Planning/Economic Developer Track**  
**Liberal Studies:** As outlined in Liberal Studies section with the following specifications: 54-58  
 Mathematics: MA 121 or MA 217  
 Social Science: EC 121  
 Liberal Studies electives: EC 122, no courses w/ RP prefix

**College:** 0-6  
 Foreign Language Intermediate Level

**Major:** 39  
 Required courses in Planning  
 RP 213 Cartography I  
 RP 316 Introduction to GIS  
 RP 350 Introduction to Planning  
 RP 352 Planning Methods  
 RP 354 Planning Design  
 RP 412 Research Seminar  
 RP 458 Land Use Law  
 RP 464 Land Use Policy  
 RP 468 Planning Theory

Track courses:

- Four of the following:
- GE 231 Economic Geography
- GE 331 Population Geography
- RP 332 Urban Geography
- RP 333 Trade and Transportation
- GE 334 Political Geography

**Other Requirements:**

Internship (GE 493) strongly recommended

**Free Electives:** 27-31

EC 383 Regional Economics recommended

**Total Degree Requirements:** 124

**Bachelor of Science--Regional Planning/Environmental Planner Track**

**Liberal Studies:** As outlined in Liberal Studies 54-58 section with the following specifications:

Mathematics: MA 121 or MA 217

Liberal Studies electives: CO/IM/BE 101 recommended, no courses with RP prefix

**College:** 0-6

Foreign Language Intermediate Level

**Major:** 39

Required courses:

- RP 213 Cartography I
- RP 316 Introduction to GIS
- RP 350 Introduction to Planning
- RP 352 Planning Methods
- RP 354 Planning Design
- RP 412 Research Seminar
- RP 458 Land Use Law
- RP 464 Land Use Policy
- RP 468 Planning Theory

Track Courses:

- Four of the following
- RP 314 Map and Photograph Interpretation
- GE 340 Fresh Water Resources
- GE 341 Climatology
- GE 342 Physiography
- RP 415 Remote Sensing
- GE 440 Conservation: Environmental Analysis

**Other Requirements:**

Internship (GE 493) strongly recommended

**Free Electives:** 27-31

**Total Degree Requirements:** 124

**Bachelor of Science--Regional Planning/Town Manager Track**

**Liberal Studies:** As outlined in Liberal Studies 54-58 section with the following specifications:

Mathematics: MA 121 or MA 217

Social Science: PS 111 recommended

Liberal Studies electives: CO/IM/BE 101 recommended, GE 230, no courses with RP prefix

**College:** 0-6  
Foreign Language Intermediate Level

**Major** 39

Required Courses:

- RP 213 Cartography I
- RP 316 Introduction to GIS
- RP 350 Introduction to Planning
- RP 352 Planning Methods
- RP 354 Planning Design
- RP 412 Research Seminar
- RP 458 Land Use Law
- RP 464 Land Use Policy
- RP 468 Planning Theory

Track courses:

- GE 231 Economic Geography
- RP 332 Urban Geography
- PS 354 Metropolitan Problems
- PS 355 Intergovernmental Relations
- or
- PS 370 Introduction to Public Administration
- PS 371 Issues in Public Administration

**Other Requirements:**

Internship (GE 493) strongly recommended

**Free Electives:** 27-31

PS 251 State and Local Political Systems recommended

**Total Degree Requirements:** 124



- b) List of all associated changes for Regional Planning Major
  - 1) New department prefix (RP) for all Regional Planning courses.
  - 2) Changing Liberal Studies Specification List for Regional Planning.
  - 3) Addition of three courses to core requirements.
    - a) RP 213 Introduction to Cartography I
    - b) RP 316 Introduction to GIS
    - c) RP 458 Land Use Law
  - 4) Substitution of tracks for Controlled Electives and Required Minor.

### 3) Rationale for changes

- 1) Rationale for separate department prefix for all Regional Planning courses.

By designating the department courses that are part of the regional planning major we will make it clearer to the students and the larger university community that Regional Planning is a separate major. This is a change long awaited by Academic Information Systems to better distinguish the majors offered by the Department of Geography and Regional Planning.

The RP designation will appear on the student's transcripts and assist them when they are applying for planning positions. It will make advising and graduation check out easier. These changes will also move us closer to the requirements of the Planning Accreditation Board.

- 2) Rationale for Changes in the Liberal Studies Specification List.

The Liberal Studies specification list for Regional Planning majors is being changed to allow students more flexibility. For the Mathematics requirement we are shifting from recommending MA 217 (Probability & Statistics) to providing two options [MA 121 (Calculus I) or MA 217]. We have decided to leave the Natural Science option open because other sciences besides Geoscience may be acceptable options for our majors. Those in the Environmental Planner Track, for example, might find Biology more appropriate. Additionally we get many majors as sophomores or juniors who have already taken their science courses, and we have granted waivers for other science courses.

The Economic Developer Track retains EC 121 (Principles of Economics I) and adds EC 122 (Principles of Economics II) because these courses provide a good grounding in Economics essential for students in this track. For the other tracks, however, we are removing EC 121 as a requirement to allow more flexibility. Except for the Town Manager Track, the recommendation to take PS 111 (American Politics) is also being removed to allow students to make other choices. We are also removing the computer science requirement and making it recommended for the Cartography & GIS, the Environmental Planner, and the Town Manager tracks so that students who are already computer literate may choose other options.

Because the Town Manager Track calls for a greater knowledge of cultural and political systems, we are making PS 111 (American Politics) a Social Science recommendation and GE 230 (Cultural Geography) a Liberal Studies Elective requirement with CO 101 recommended.

3) Rationale for the Addition of Three Courses to Major Required Courses List.

- a) RP 213 Cartography I is being added to the core requirements because we have found that our interns with basic cartographic skills have a 'foot in the door' for job opportunities. In addition, a graphic skills component is a standard feature of most job descriptions for planners. By making cartography a core course, our students will expand both their skills and their graphic portfolios.
- b) RP 316 Introduction to GIS is being added to the core because of the increasing use of Geographic Information Systems in county, township and borough planning offices. This trend will only continue as local units of government enter the 'information age.' By requiring a GIS course our students will be prepared to assume jobs in offices developing municipal systems.
- c) RP 458 Land Use Law is being added to the core because the legal environment for land use planning has undergone dramatic changes in the last decade. The rules of planning practice are currently undergoing the most dramatic changes since 1926. Recent Supreme Court rulings, the introduction of state level 'takings' legislation and the rise of the Wise Use Movement, represent profound changes in both the regulatory environment and planning practice. By making Land Use Law a core course we ensure that our students will be well versed in land use law and know their component of the law at least as well as the police do.

4) Rationale for the Substitution of Tracks for Controlled Electives and a Minor.

By establishing a series of professional tracks we hope to create a coherent set of options for our students. Currently students select courses based on individual predilections or opportunistically-- whatever seems to meet the requirements and fit the schedule. By formalizing our program options we hope to provide considerably more structure to their programs of study, and lay out a clear direction for their tenure as undergraduates. In addition, the provision of professional tracks provides potential employers with a better idea of how a student's academic training dovetails with the requirements of their organizations.

The tracks also provide a specialization that replaces the former required minor. Students will still be encouraged to take courses in other departments that complement their track as part of their free electives.

**Part III. Implementation.**

1) Effect on students in the existing program.

In the transition period, we would accommodate our students in the best way possible on an individual basis. We anticipate a minimum number of problems--no situation that would defy solution to the student's benefit.

2) Effect on teaching loads.

Two of these courses (RP 213 and RP 316) are already regularly offered. We recently began offering GE 213 Cartography I twice a year due to increased demand for the course. Additional sections could be added without seriously compromising the service course loads. RP 458 Land Use Law is a new course and the planner teaching it will teach one less geography course each year. Other geography faculty will be able to teach the course currently taught by the planner.

No additional faculty will be needed beyond the number currently in the department, provided that the two permanent faculty positions now held by temporary faculty since recent retirements are retained. At least one of these positions will likely be a geographer with a planning background. These positions should be converted as soon as possible for the continued support of our program.

3) Effect on resources.

With the already increased demand for Cartography I and GIS we are equipped to handle them with current funding available to the department. Regardless, we would have had to support our mapping software upgrades with current department and university funds. Current resources are sufficient to offer Land Use Law.

4) Effect on enrollments.

The addition of these three courses to the core will not greatly effect enrollments because many majors already took Cartography and GIS. The modifications to the Liberal Studies specifications should make it easier for those majors who transfer from other departments.

See the sample student schedule on the following page.

## Sample Student Schedule for Regional Planning Major

### Fall Semester Freshman

RP 350 Introduction to Planning

### Spring Semester Freshman

RP 352 Planning Methods

+ / or

RP 213 Cartography I

### Fall Semester Sophomore

RP 213 Cartography I

### Spring Semester Sophomore

RP 354 Planning Design

one track course\*

### Fall Semester Junior

RP 316 Introduction to GIS

RP 458 Land Use Law

### Spring Semester Junior

RP 464 Land Use Policy

one or two track courses

### Fall Semester Senior

RP 468 Planning Theory

one or two track courses

### Spring Semester Senior

RP 412 Research Seminar

\*Each track has four courses.

There is enough flexibility in this schedule so that students who begin as sophomores or even first semester juniors could complete a regional planning major in four years.

**Part V. Letters of Support.**

Letters of support were requested in July from Computer Science, Mathematics, and Geoscience. Computer Science and Geoscience have yet to reply. After a discussion with the chair of Mathematics, we revised our original math requirement. A letter of support follows.

To: Dr. Susan Forbes, Chairperson  
Geography and Regional Planning Department

From: Gerald Buriok, Chairperson  
Mathematics Department *GMB*

Date: September 11, 1995

Subject: Support of Curriculum Change

The faculty of the Mathematics Department support your proposal for a change in the Liberal Studies Mathematics requirement for the Bachelor of Arts in Geography and the Bachelor of Science in Regional Planning from MA 217 recommended to MA 217 or MA 121 required. I do not anticipate any enrollment problems or resource problems in the Mathematics Department due to this change.