

**DEGREE/PROGRAM CHANGE
FORM C**

Fields marked with * are required

Name of Initiator: John Newman Carr

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Initiator's Rank / Title* Asst Professor:
Geography

Faculty Contact* John Carr

Administrative Contact* Jazmin Knight

Department* Geography

Division

Program

Branch

Proposed effective term:

Semester Fall ▼ Year 2011 ▼

Course Information

Select Appropriate Program Undergraduate Degree Program ▼ CIP Code

Name of New or Existing Program * Minor in Law, Environment, and Geography

Catalog Page Number 209 Select Category Minor ▼ Degree Type

Select Action New ▼

Exact Title and Requirements as they should appear in the catalog.

See current catalog for format within the respective college (enter text below or upload a doc/pdf file)

The required curriculum for the Minor in Law, Environment and Geography is as follows: Required Courses (10 Credits) Credits Geog 101 Physical Geography 3 Geog 102 Human Geography 3 Geog 105L Physical Geography Lab 1 Geog 364 Law and Geography 3 Elective Courses (12 Credits from the following options) Credits Geog 195 Humans Role in Changing the Face of the Earth 3 Geog 350 Physical Landscapes 3 Geog 360 Land Use Management 3 Geog 365 Nature and Society 3 Geog 461 Environmental Management 3 Geog 462 Water Resources Management 3 Geog 463 Public Land Management 3 Geog 464 Food and Natural Resources 3

This Change affects other departmental program/branch campuses

Reason(s) for Request * (enter text below or upload a doc/pdf file)

UNM's Department of Geography has a unique strength in that three of its eight faculty have J.D.s and several other members of the faculty have expertise in legal history and natural resource management. This proposal capitalizes on this strength to create a new undergraduate minor utilizing existing campus resources and faculty. The new minor is intended to benefit the University of New Mexico and the Department of Geography several ways. First it will allow UNM in general, and Geography in particular, to attract new undergraduate students for the minor, including students who are interested in career paths in resource management and other environmental professions. It will also attract students who are interested in applying to law school after graduation. There is no comparable minor in New Mexico, although the skills this program will offer are in demand by a range of public and private employers. Second, it will strengthen our unique specialty within the discipline that, along with our regional location and focus on environment will quickly set us apart as a special, boutique geography program. This established focus will also assist with marketing the University and the Department. A more detailed statement addressing the Department's proposed undergraduate minor in Law, Environment, and Geography, and a proposed Graduate Certificate in Law, Environment, and Geography is attached hereto.

[Law Environment Geography Program Summary.doc](#)

Statements to address budgetary and Faculty Load Implications and Long-range planning

* (enter text below or upload a doc/pdf file)

There is no budgetary impact from this proposal. In 2008-09 academic year the Geography department went through an extensive programmatic revision that cut all excess courses the Department could not cover. Since that revision new faculty have been added to the department. Subsequent planning in the fall of 2010 has allowed the expansion of our curriculum to reflect departmental strengths in legal geography and natural resource management. Supporting course rotation documentation has been attached hereto. Student Learning Outcomes and Assessment material is also attached hereto.

[Geography Learning Assessment Outcomes.doc](#)

[Course Rotation 2010-15 \(with 517 added to rotation\).doc](#)

Law, Environment, and Geography: Graduate Certificate and Undergraduate Minor

Executive Summary: Seeking to capitalize on a nationally unparalleled departmental strength in legal and environmental geography, the Department of Geography proposes to create two new programs – an undergraduate minor in Law, Environment, and Geography and a Graduate Certificate in Law, Environment and Geography – using existing departmental and campus resources.

Overview:

UNM's Department of Geography has a unique strength in that three of its eight faculty have J.D.'s and several other members of the faculty have expertise in legal history and natural resource management. This proposal capitalizes on this strength to create two new programs—all with existing campus resources and faculty. These programs will not only enhance the Department's reputation as a national leader in the growing field of legal geography but will also provide new and opportunities for undergraduate, graduate and law students at UNM who are interested in education and training in law and natural resource policy and management. Once the undergraduate minor and graduate certificate in Law, Environment, and Geography are established, further development toward a Joint JD & Masters in Geography may be explored.

Proposed Action:

1. At the graduate level the proposal seeks to create a one-year graduate certificate in Law, Environment, and Geography. The new program will appeal to (1) environmental, natural resources professionals who are either dealing with legal challenges through their work, or who want the program for promotion (2) law students seeking to enhance their credentials in preparation for studying environmental and/or natural resources law.
2. At the undergraduate level, the proposal is to create a Law, Environment, and Geography minor. This minor will interest both undergraduates looking for a specialty in environmental issues, natural resource management or pre-law students looking to enhance their chances with law school admissions. As demonstrated with the attached curriculum, this can be accomplished with existing, regularly scheduled course offerings.

Existing Departmental Resources:

Beyond the array of existing graduate and undergraduate courses listed under the attached draft curricula, the Geography Department is fortunate to have a faculty with an unparalleled depth in the areas of legal and environmental geography:

Melinda Harm Benson, J.D.

Dr. Benson's research and teaching centers on environment and natural resource management challenges, with a particular emphasis on emerging trends in environmental governance. Her work focuses on the complexities associated with many current environmental challenges, including examining the role of law and institutional integration of in emerging concepts including resilience theory and adaptive management. Prior to academic life, she worked as an attorney representing conservation groups on environment and natural resources issues in the Intermountain West.

John Carr, J.D., Ph.D.

Dr. Carr's research and teaching centers on the intersections between law, public space, and politics, with a special focus on the ways legal regulations are mobilized to spatially divide and contain various populations. Prior to academic life, he had over a decade's experience as a civil rights and complex litigation attorney. He has also served as the Editor in Chief of the "Texas Environmental Law Journal."

Olen Paul Matthews, J.D., Ph.D.

Dr. Matthews has been using law as a research tool for evaluating natural resource issues for 35 years. Much of his focus has been on transboundary conflicts and common property resources such as water and public lands. These research areas are central in the overlap between law and geography. Current research focuses on revising New Mexico's water law, analyzing the impact of the 1872 Mining Law on the evolution of geologic science

(with Maria Lane), and evaluating the impact the constitution's commerce clause has on federal state relations (with John Carr). His teaching focuses on natural resource/environmental management with a legal orientation.

K. Maria D. Lane, Ph.D.

Dr. Lane's research interests are historical geography, environmental knowledge, water resources, history and geography of science, and landscapes of American Southwest. The interests often bring her work to the interrelationship of law of law and science. In 2008, she received a National Science Foundation grant on the "Intersections of Authority: Science, Law and the Management of Water Resources in New Mexico's Rio Grande Valley."

Chris Duvall, Ph.D.

Dr. Duvall's research and teaching interests span biogeography, food geography, and the history of environmental science. In addition to extensive work addressing the interrelationship between human settlement and biodiversity in Mali, Africa, he researches and teaches on the political ecology of food in the United States. In his teaching on food, he focuses on laws and policies that affect the U.S. food system, including the Farm Bill and Organic Foods Protection Act. Prior to academic life, he served as a U.S. Peace Corps Volunteer, and a Associate Director of a urban youth development program in San Francisco.

Paul Zandbergen, Ph.D.

Dr. Zandbergen's work relates to the intersection of law, privacy and GIScience. To date, this work has led to investigations of sex offender registration programs and impacts of geospatial locating tools on privacy. In 2009, he received the University Libraries Faculty Acknowledgement Award and delivered the invited lecture "Everybody is watching everybody: Privacy implications of geospatial technologies."

Complementary Departmental Initiatives:

At present, the Geography faculty is aggressively promoting its strengths in the area of Law, Environment, and Geography, including redesigning its web portal to reflect existing departmental strengths. Professors Harm-Benson and Carr have established a growing national, interdisciplinary listserv for Legal Geography. They are also in their second year of organizing a series of paper presentation panels on Legal Geography for the annual meeting of the Association of American Geographers. In addition, the faculty will be creating a long-term presence at the annual Law and Society Association Meetings to promote the growing departmental specialty.

Projected Outcomes:

There are several advantageous outcomes that we expect to result from the proposed programs.

- First, it will allow UNM in general, and Geography in particular, to attract new graduate students for the Certificate program. There is no comparable program in New Mexico, although the skills this program will offer are in demand by a range of public and private employers. We will *develop a regular annual cohort of at least 6 Certificate students in the first three years of the program, and anticipate that long-term annual cohort size will be about 10 students.*
- Second, it will strengthen our unique specialty within the discipline that—along with our regional location and focus on environment—will quickly set us apart as a special, “boutique” graduate program. We hope to *double our incoming graduate cohorts within the first three years of this program.* This established focus will also assist with marketing and will create an instant presence on campus for new potential majors and minors.
- Third, it will also enhance existing students’ experiences by allowing them to add a new minor that appeals to those who are interested in natural resource management and/or environmental issues. We project a *25% increase in minors and 10% increase in majors in the first three years of the new minor.*
- Finally, it will establish important cross-disciplinary connections across campus, including connections between departments within the College of Arts and Sciences, and also between Arts and Sciences and the Law School, and Community and Regional Planning.

Department of Geography
Plan for Assessment of Student Learning Outcomes
The University of New Mexico

A. College, Department and Date

1. College: *College of Arts & Science*
2. Department: *Department of Geography*
3. Date: *May 15, 2008*

B. Academic Program of Study

B.A. Geography

C. Contact Person for the Assessment Plan

Maria Lane, Assistant Professor, mdlane@unm.edu

D. Broad Program Goals & Measurable Student Learning Outcomes

1. Broad Program Learning Goals for this Degree Program

These goals reflect the Department's overarching mission to promote, develop, and improve spatial literacy through all of its programs.

- A. Students will develop an ability to see meaning in the arrangement of things in space.
- B. Students will develop an ability to see relationships between people, places, and the environment.
- C. Students will become geographical problem-solvers capable of using qualitative, quantitative and/or spatial methods of analysis.
- D. Students will become clear and effective communicators.

2. List of Student Learning Outcomes (SLOs) for this Degree Program

- A.1. Students will be able to explain a prominent geographic pattern using core geographic concepts.
- B.1. Students will be able to analyze the relationships that influence human-environment interaction in a specific location at a specific time.
- C.1. Students will be able to identify the geographic contexts relevant to an inquiry.
- C. 2. Students will be able to acquire and manipulate data relevant to a geographic inquiry.
- C.3. Students will be able to assess the results of a data-driven geographical inquiry.
- D.1. Students will be able to communicate clearly and effectively in an oral format.
- D.2. Students will be able to communicate clearly and effectively in a written format.

Course Rotation: 2010-2015 (LEG Incorporation 10-11-10)

Course	2010F	2011S	2011F	2012S	2012F	2013S	2013F	2014S	2014F	2015 S
101 Physical	KS*	CD	CD	*	CD	NH	CD	NH	CD	*
101 Physical -eve	AP*	----	*	----	*	----	*	----	*	---
102 Human	JC	BC								
102 Human -eve	SB*	----	*	----	----	*	----	*	---	*
105L Lab(TA'S)										
140 World	DMcT*	ML								
195 Hum. Mod.	BC									
281L Comp. Map.	CD	SF		SF		SF		SF		SF
350 Physical Landscape		* ?		CD		CD		CD		CD
360 Land Use Mgmt.		KS*								
363 Economic		BC								
365 Nature and Society			MB		MB		MB		MB	
366 Law & Geog		JC		---		JC		JC		JC
381L Intro GIS	LArn*	PZ	SF	PZ	NH	PZ	NH	PZ	NH	PZ
445 NM & SW			ML		ML		ML		ML	
461/561 Env mgmt	MB									
462/562 Water Mgt		OPM		MB		OPM		MB		OPM
463/563 Public Lands	MB			OPM		MB		OPM		MB
464/564 Food and Natural Resources	CD		CD		CD	CD?		CD		
466/566 City & Hum Env		JC		---		JC		---		JC
471 Sem.		OPM								
480/580L Quant		--		?		NH		NH		---
482/582L Position Sys		KB*				KB*				KB*
483/583L Fund RS	PN*									
484/584L Appl.RS		PN*								
485/585L Internet Map & GIS				KB*				KB*		
486/586L Applic. Of GIS		SF			SF		SF		SF	
487L/587 S. An. & M.	PZ									
488L/588 GIS C & T		PZ								
501 Theory & methods	BC									
502 Geog Res		ML								
514 Sem: Nat Resources		---		MB				MB		
515 Sem: Cult and Political Ecology		CD		CD			CD		CD	
516 Globalization	JC		JC		JC		JC			JC
517 Law & Geography				OPM		MB		JC		MB
525 Sem. GI Science			PZ		PZ		PZ		PZ	
581L Fund. GIS	NHeb*		?		?		?		?	

* = Part- Time Temporary Faculty

SF = New Dept Chair

NH = New Hire

Teaching Load by Faculty Member

Name	2010F	2011S	2011F	2012S	2012 F	2013S	2013F	2014S	2014F	2015 S
BC	195 501	102 363	195 501	102 363	195 501	102 363	195 501	102 363	195 501	102 363
JC	102 516	366 466	102 516	RES SEM	102 516	366 466	102 516	366 517	102 466	366 516
ML	Res Sem.	502 140	140 445	140 502	140 445	140 502	140 445	140 502	140 445	140 502
MB	461 463	Res Sem.	365 461	514 462	365 461	517 463	365 461	514 462	365 461	517 462
CD	281L 464	101 515	101 464	350 515	101 464	350 464?	101 515	350 464	101 515	350 464
OPM		462 471		463 471 517		462 471		463 471		462 471
PZ	487L Course Release	488L 381L	487L 525	488L 381L	487L 525	488L 381L	487L 525	488L 381L	487L 525	488L 381L
SF	---	281L 486	381L	281L	486	281L	486	281L	486	281L
New Hire	---	-- --	--- ---	--- ---	381L ---	101 480	381L ?	101 480	381L ?	RES Sem
KS*	101	360		360		360		360		360
PN*	483L	484L	483L	484L	483L	484L	483L	484L	483L	484L
KB*		482L		485L		482L		485L		482L
O- PT*	101e 102e 140 381L 581L	350	101e 102e 581L	101 350 480?	101e 581L	102e	101e 581L	102e	101e 581L	101 102e
Total Part- time	7	4	4	5 or 6?	3	4	3	4	3	5