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### California State University, San Marcos General Education Program GENERAL EDUCATION NEW COURSE CERTIFICATION REQUEST

• AREA D7: Interdisciplinary Social Science

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			STRACT		
Course Abbreviation and N Number of Units: 4	ourse Abbreviation and Number: GEOG 120			eographic	Information
College or Program:			Desired term of implementation	Mode	of Delivery:
□ CHABSS □ CSM □ C	EHHS [	СОВА	☐ Fall ☐ Spring ☐ Summer Year: 2018	⊠ fac	ce to face brid ly on-line
Course Proposer (please pr	int): Eliz	abeth Ridder	Email: eridder@csusm.edu		ission Date:
database aspects, and spat  2. GE Syllabus Checklist: T	ial repre	sentation and	s certified for GE credit must con		·
Course description, co	ourse title	and course nun	nber		
			on Area and student learning objectives through course activities		
☐ Topics or subjects co			objectives through course activities	· caperione	
Registration condition	lS				
Specifics relating to h	ow assign	ments meet the	writing requirement		
☐ Tentative course sche	dule inclu	ding readings			
☐ Grading components	ncluding	relative weight	of assignments		
SIGNATURES					
<u></u>	AN 201	7	Department Chair	1/2-	1/16
. : 174 TAND WARD : 174 TAND WATER .	Date the depart	ment will be requ	ired to report assessment data to the	TEC annua	lly. Of Initial
	Support	Do not support*		Support	Do not support*
Library Faculty Date			Impacted Date Discipline Chair		
	Support	Do not Support*		Approve	Do not Approve

\* If the proposal is not supported, a memo describing the nature of the objection must be provided.

**GEC Chair** 

Date

Course Coordinator: Elizabeth Ridder Phone: x8298 Email: eridder@csusm.edu

Impacted Discipline

Chair

Date

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Part A: D7 Interdisciplinary Social Science General Education Learning Outcomes (GELOs) related to course content. [Please type responses into the tables.]

Interdisciplinary Social Science GELOs this course will address:	Course content that addresses each GELO.	How will these GELOs be assessed?
D.1 Students will describe and critically apply social science theories and methods to problems. This may include the development of research questions, critical evaluation of evidence, data collection, fieldwork, and/or employment of mathematical analysis.	Students will collect GPS data (data collection and field work), and in their lab write-up, discuss the sources of potential error in their data collection (basic research design), and provide suggestions for improvement in their methodology. They will be required to evaluate the accuracy of their data, and perform an analysis (e.g., clustering). They will discuss their results, as well as other methods that may be appropriate to evaluate their data.	Students are assessed through weekly lab exercises that require students to address at least one component: research question, critical evaluation of evidence, data collection, fieldwork, or employment of mathematical analysis.  The intent is to build up to the final project that demonstrates inclusion of all components.
	The course is designed to lead students through understanding GIS and its application to real world problems. Thus, the labs are focused on identifying research questions for a GIS environment, evaluation of evidence (primary and secondary), collection of data through fieldwork, and various types of spatial analysis at an introductory level.	
D.2 Students will analyze the impact of race, class, gender and cultural context on individuals and/or local and global societies.	Using Geographic Information Systems to analyze and visualize the spatial relationships of variables, students will use different data classification schemes to investigate the impacts on certain representation in voting districts. Students could also find data to examine spatial relationships between	Students are assessed through a combination of completed lab exercises, written exams, and the incorporation of the information from the GIS exercises into their final projects.

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D.3 Students will outline the contemporary and/or historical perspectives of major political, intellectual, psychological, economic, scientific, technological, or cultural developments	Course readings, lectures, and lab assignments will address the historical development of spatial analysis, its applications, and the technologies utilized to solve questions with spatial data. Students will be asked to describe the development of GPS in the United States and discuss an example of its contemporary use for scientific investigation (in any field).	Students will be assessed via specific exam questions asking students to construct a time line, to create a diagram, or to outline the major developments in GIS-related technologies.
D7.1 Students will explain the usefulness of an interdisciplinary approach for studying social phenomena and issues.	In lab exercises, students will be asked to explain how that week's GIS/geography/spatial analysis skills could be applied to problems or questions from their discipline. Students will also address, either through written explanation or mental mapping, the relationships between the skills they've utilized that day and the disciplines that inform the GIS tool (e.g., spatial analysis requires knowledge of math and geography, but interpretation of the results also requires knowledge of the data and the discipline-specific application or theory).	Students will be assessed via specific exam questions asking students to identify concepts from geography, mathematics, and art and design, in addition to their own discipline, highlighting the interdisciplinary nature of many fields of study. They will also be evaluated, via rubric, on their ability to incorporate this information in their final projects.

Part B: General Education Learning Outcomes required of all GE courses related to course content:

GE Outcomes required of all	Course content that addresses each	How will these GELOs be
Courses	GE outcome?	assessed?

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Students will communicate effectively in writing to various audiences. (writing)	Students are required to complete weekly lab exercises where they explain the outcomes of that day's lab exercise (e.g., results of analysis), why they made specific analytical choices (self-reflection), and how the concepts and skills apply to their discipline.  Students create a larger individual project, which will require them to structure their papers according to discipline specific standards (e.g., following a journal format or other accepted professional reporting standard).	Students are assessed via rubric, based on their ability to clearly articulate their methods of analysis and interpretation of results. Successful individual projects will summarize relevant primary sources and relate analytical results to course concepts and primary sources.
Students will think critically and analytically about an issue, idea or problem. (critical thinking)  Students will find, evaluate and use information appropriate to the course and discipline. (Faculty are strongly encouraged to collaborate with their library faculty.)	Lab exercises, exams, and the individual project will require students to integrate course material, and apply their knowledge to a problem, issue, or case study.  Students are required to complete reading assignments to supplement instruction.  As the semester progresses, students will increasingly work independently to locate data, select the appropriate analytical tools, and to interpret the results of their analysis. This may require additional reading to examine the appropriate tools for a specific question or data set, which will require the students to conduct literature and information searches that are relevant to geography, GIS, and their discipline.	Students are assessed on their ability to relate course concepts to each other, and to apply these course concepts to analytical results.  Students are assessed on their ability to find and use appropriate data to address a specific question, problem, or case study. As part of their individual project, students will be assessed on their ability to locate relevant primary sources, and to relate these articles to their data analysis interpretation. For example, if a student project investigated differing perceptions of the CSUSM campus by asking a sample of other students to construct a mental map of the campus, then the student will need to find, summarize, and relate articles on constructing surveys, mental maps, and how to interpret results from surveys.

Part C: GE Programmatic Goals: The GE program aligns with CSUSM specific and LEAP Goals. All D7 courses must meet at least one of the LEAP Goals.

GE Programmatic Goals	Course addresses this LEAP Goal:	
LEAP 1: Knowledge of Human Cultures and the	□ No ⊠Yes	
Physical and Natural World.		
LEAP 2: Intellectual and Practical Skills	□ No ⊠Yes	
LEAP 3: Personal and Social Responsibility	□ No ⊠Yes	
LEAP 4: Integrative Learning	□ No ⊠Yes	
CSUSM Specific Programmatic Goals	Course content that addresses the following	
	CSUSM goals. Please explain, if applicable.	
CSUSM 1: Exposure to and critical thinking about	☐ No ☑ Yes (please describe): Through	
issues of diversity.	individual projects, some students may choose to	
	investigate issues of diversity; however, course	
	content is not designed specifically to address issues	
	of diversity.	

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CSUSM 2: Exposure to and critical thinking about the	■ No Yes (please describe): Because the course	
interrelatedness of peoples in local, national, and	examines spatial data at different temporal and	
global contexts.	spatial scales, students will be exploring and	
	critically thinking about how people are interrelated	
	at local, national and global scales.	

Part D: Course requirements to be met by the instructor.

Course Requirements:	How will this requirement be met by the instructor?
Course meets the All-University Writing requirement: A minimum of 2500 words of writing shall be required for 3+ unit courses.	In this course, the All-University writing requirement is fulfilled through the combined writing requirements of weekly lab exercises, written exam questions, and the written component of the individual project.
Instructors will include an evaluation of students' written work that assesses both content and writing proficiency.	Students will receive weekly feedback on their lab exercise, which evaluate their ability to clearly articulate their methods of analysis, including data interpretation. Through their description of their analysis, students will justify their particular approach, which demonstrates their understanding of how to select an analytical approach and when it is inappropriate to use the selected approach. Their data interpretation will convey their integration of course concepts and application of those concepts in the appropriate context.
Courses will include a component requiring students to develop an understanding of the core information resources and literature of the disciplines.	As the semester progresses, students will increasingly work independently to locate data, select the appropriate analytical tools, and to interpret the results of their analysis. This may require additional reading to examine the appropriate tools for a specific question or data set, which will require the students to conduct literature and information searches that are relevant to geography, GIS, and their discipline.
	Students create a larger individual project, which will require them to structure their papers according to discipline specific standards (e.g., following a journal format or other accepted professional reporting standard). Students will also present the outcome of their analysis during a class poster presentation session.
All social sciences core course proposals/syllabi shall require information literacy: This includes opportunities for students to read, evaluate and analyze social science information, and report results of their analysis clearly. Courses will be assigned a librarian as a resource person to facilitate the information literacy and library use components.	As the semester progresses, students will increasingly work independently to locate data, select the appropriate analytical tools, and to interpret the results of their analysis. This may require additional reading to examine the appropriate tools for a specific question or data set, which will require the students to conduct literature and information searches that are relevant to geography, GIS, and their discipline.
	Students create a larger individual project, which will require them to structure their papers according to discipline specific standards (e.g., following a journal format or other accepted professional reporting

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	standard). Students will also present the outcome of their analysis during a class poster presentation session.
	The ability to interpret and critique maps is also a component of visual literacy.