

Section 1. Proposed Course Outline (A general statement of course content that informs class syllabus construction. Once approved, all sections of a given course must include this content, no matter which instructor teaches the course, or the mode of delivery. Divisions must include this new course outline in the Divisional Course Outline binder as required by COPPs.)

Abbreviated Course Title Prerequisites: 16 credits Co-requisites:				
Grade Option: 🗌 Grade	ed (with P/NP option) 🔲 Pas	ss/No Pass only		
Number/Type Credits	Term Minimum Contact	Term Maximum Contact	11-Week Term Contact	
4 Lecture Lec/Lab Lab 4 Total credits (sum)	hours (lec-lab credits x 20) hours (lab credits x 30)	48 hours (lecture credits x 12) hours (lec-lab credits x 24) hours (lab credits x 36) Total hours (sum)	44 hours (lecture credits x 11) hours (lec-lab credits x 22) hours (lab credits x 33) 44 Total hours (sum)	
Course Description	n (1000 character limit):			
visualization and on-li		ell as innovations in the ge	ospatial industry will be isualization skills and	
		What evidence will demonstrate that students have achieved course outcomes? (Assessment tools may include departmental tests, written		
What attitudes related to the subject will the student hold?		products, portfolios, juried performances, quizzes and exams, or alternative assessments such as qualitative studies, capstone projects, external reviewers, etc.)		
Upon successful con student will be able to	npletion of this course, the o:	How each outcome will be	e assessed:	
Use two or more open so a) create and extract data b) analyze data c) create a map and other		Discussion, quiz, projects		
-	interactivity with open source and	Discussion, quiz, projects		
	e application (commercial and open	Technical documentation		

Course Content by Major Topics

Create 3D visualizations

What topics will be presented? What are the main activities of the course? What are the central themes? (See sample at http://www.lanecc.edu/cops/format3.htm.)

Discussion, quiz, projects

Topics:Topic 1 – Innovations in geospatial technology.

Topic 2 – Open source geospatial technology.

Topic 3 – Internet-based tools for geospatial technology.

Topic 4 –Trends in Visualization.

Section 2. Proposal Information Course Developer: Type of Proposal Type of Course: x New course ☐ Lower Division Collegiate (transfer) Lynn Songer Currently 199 or 299 x Professional/Technical (required or elective) Date: October 2011 Catalog year to take effect: Experimental Course Developmental, numbered below 100 ☐ 199 Special Studies 2010-11 299 Trends Revised course (If increasing credits, use credit change form) Reactivated course with no change Reactivated course with changes Rationale: How does this proposal further the goals of the program or department? This course will be an advanced elective for students taking the GIST certificate program. The course will focus on advanced skills for evaluating and using a variety of open-source and innovations in geospatial technology What assessment evidence supports this proposal? The need to develop advances GIS class that focuses emerging trends and innovations is supported by our industry advisory board How do you know there is a demand for this course? GIS classes have been offered for the last three years with growing enrollment. Several students who have finished the pathway certificate program have signed up for independent study classes to continue building their skills. Geospatial technologies are listed by the DOL as one of the high-growth career fields. Additionally, offering this proposed course is supported by our advisory committee. Section 3. Curriculum Equity (http://www.lanecc.edu/cops/curric.htm) To promote an environment where all learners are encouraged to develop their full potential, this course will support Lane's Curriculum Equity policy in the following way(s): Use data related to culturally and ethnically diverse people when creating thematic maps. This will promote an understanding of the power of data visualization to create flawed data interpretation. Data will focus on race, gender, age, religion, disability, national origin, marital status, or class background. Section 4. For revised courses only: PREVIOUS Catalog/Course Information: Course Number: _____ Course Title in Banner: ____ (30 characters maximum) Full Course Title in print catalog: Prerequisites: Co-requisites: Grade Option: Graded (with P/NP option) Pass/No Pass only Term Minimum Contact Term Maximum Contact 11-Week Term Contact Number/Type Credits __ hours (lecture credits x 12) __ hours (lecture credits x 10) __ hours (lecture credits x 11) Lecture hours (lec-lab credits x 20) hours (lec-lab credits x 24) __ hours (lec-lab credits x 22) __ Lec/Lab hours (lab credits x 30) __ hours (lab credits x 33) __ hours (lab credits x 36) __ Lab

___ Total hours (sum)

___ Total hours (sum)

__ Total credits (sum)

___ Total hours (sum)

Contact hours
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Section 5. Support Courses (New Professional/Technical course proposals must complete.)

Professional/Technical courses are tracked within programs for purposes of Carl Perkins funding and budgetary planning. Indicate all degree or certificate programs for which this course will be required.

Program	Division
Geographic Information Science and Technology (GIST)	Social Science

Section 6. Overlap Courses (New course proposals must complete.)

While overlap of course materials is not necessarily a flaw, duplication of course materials may lead to inefficient use of college resources. If there is overlap, the faculty of overlapping courses must agree on the extent of overlap and attach a rationale explaining its necessity.

Indicate all departments/courses that this course may overlap. Division Dean of existing course enters one of three options at right. Note: N/A is not an option.

Options:

- 1. Approved: course does not overlap.
- 2. Approved: overlap is acceptable. Rationale attached.
- 3. Disapproved: reasons attached.

Division	Course Number / Title	% Overlap	Option	Division Dean of existing course (Signature required for all options)	Date
Social Science	GIS 246	10			

Section 7. Qualification to fulfill degree requires http://www.lanecc.edu/currsched/drrcforms.htm , and send to Committee):	•	
Form(s) applying for the following degree requireme this box when forms have been completed and attached		
AAOT, ASOT-Bus, OTM:	AAOT:	
Arts & Letters	☐ Ethnic/Gender/Cultural Diversity	
⊠ Social Sciences	AAS, 1-year and 2-year certificates:	
Science / Mathematics / Computer Science	☐ Human Relations	

Section 8. Library Impact Statement

Under accreditation standards, Library consultation is essential for new programs, new courses and for substantively revised courses when the revisions entail any change in library use.

What assignments will require the use of library and information resources?

Each academic area has a Liaison Libra designated librarian to discuss the librar assess library resources.				
To be completed by Liaison Librarian ☐ Library resources are adequate to su ☐ Additional resources are needed but funds. ☐ Significant additional Library funds/re	ipport this propos can be obtained	from current	Liaison Librarian	Date
this proposal.				
Section 9. Divisional Approval	(To be completed	by Division Chair and	d Administrative Assistant	:)
Human, Physical, and Financial Resources: Additional instructional costs (staff, materials, services or facilities) will be incurred to offer this course. Source of funding:		Fees: We have completed fee rationale and fee request forms to be submitted to OISS upon course approval, in compliance with the COPPs procedure,		
☐ No additional instructional resources (staff, materials, services or facilities) are needed to offer this course.		"Fees: Special" No special fees will be required for this course. Divisional Recommendation:		
Explain:		☐ The Division Chair and Administrative Assistant		
Required Certifications:		have reviewed this course proposal and kept a copy for		
 ☐ We have developed minimum course certification standards according to the COPPs procedure "Instructor Qualifications: Credit," to be filed with OISS upon course approval. ☐ We have completed faculty certification form(s) for faculty qualified to teach this course, to be filed with OISS and Human Resources upon course approval. 		divisional files. ☐ Faculty review of this course was completed within the division on(date).		
		☐ Pass ☐ Do N	Not Pass	
Administrative Assistant/Coordinator	Date	Division Dean	Date	-
Section 10. College Approval				
Curriculum Committee Chair	Date	Executive De	an	Date
Curriculum Approval Committee hearing: Date	Vice President	Academic Affairs, Chic	of Academic Officer	 Date
Date	vice riesidelit, /	nuauennu Anana, Unit	EI AGAGEIIIG OIIIGEI	Date