Cali	ifornia State University, San Marcos FORM E-T
	 AUTHORIZATION TO OFFER TOPICS COURSES FOR ACADEMIC CREDIT THROUGH EXTENDED STUDIES •
(N	lote: Extended Studies sections of topic classes for which the appropriate form E-T is not on file in the Office of Academic Programs will be removed from BANNER as periodic audits of course offerings are performed.)
	Note: Any proposed topic can only be offered two times before being converted to a non-topics course. Academic Programs will assign the appropriate suffix and edit the topic description provided.
1,	College of: Arts & Sciences 2. Center/Program/Department: Mathematics
3.	Instructor Dr. Linda Holt
	(If more than one instructor will be teaching the course, list full name of the "instructor of record.") $(1 - \frac{1}{2})$
4.	Topic Abbreviation and Number: Math 409-Topics in Mathematics for Teachers - Geometry
6.	Term: <u>Summer - 30</u> 7. Year: <u>2007</u> 8. Variable Units* <u>1</u>
9.	Has this topic been offered previously? Yes X No If yes, indicate term(s): Year:
10.	Topic Title: Topics in Mathematics for Teachers - Geometry
11.	Topic Description: Note: This part can be skipped if answer to part 9 is "yes." (NOTE: Please provide detailed information about the topic. Please type. You may also attach the topic description on a separate sheet if you do not have enough space.
	 Reasoning in geometry – Inductive and deductive reasoning, graphs, reasoning about angle relationships. Using the tools of geometry – using ruler and compass constructions for angle and segment duplication, perpendicular bisectors, perpendiculars to a line, angle bisectors, parallel lines, points of concurrency, and centroids. Transformations and tessellations – Symmetry, isometries, compositions of transformations, tessellations with regular and nonregular polygons. Geometry as a mathematical system – axioms, direct and indirect proofs, proving theorems about triangles, quadrilaterals and circles, non-Euclidean geometry.
12.	Does this topic have prerequisites? Math 210 and Math 212
13.	Does this topic have co-requisites? No
14.	Does the topic require consent for enrollment? X Yes No
	Faculty Credential Analyst Dean X Program/Center/Department - Director/Chair
15.	Is topic crosslisted: Yes X No If yes, indicate which course and obtain signature in #18.
16.	What resources are needed to offer this topic (including technology)? None
17.	Justification for offering this topic. Student requires teaching mathematical concept reinforcement, in this case specifically geometry.
* Ente	er units only if this is a variable-units topic course.

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18. Does this topic impac	t any other disciplines? Note	e: This number can be skipped :	if answer to part 9 is "y	ves."
Yes <u>X</u> No		Any objections should be state		
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			Support	Oppose
iscipline	Signature	Date		-
iscipline	Signature	Date	Support	Oppose
19. Location (if topic not	offered at main campus)			
20. Is this course being of	fered on-line?Yes	X No		
1. Is this a contract topic	?YesX_No			
22. Enrollment Limit	1			
23. Requested Bldg/Roon Please call Extended St	n <u>None</u> udies first to reserve the room.			
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ease note: A separate For	rm E-T must be submitted f	for each section offered.		
2 m 40	h	5/21/01	7	
UZD;	Director/Chair	$\frac{5/21/07}{Date}$	<u>}</u>	
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