

Geography Department  
**STUDENT GIS CERTIFICATE CONTRACT**

Student: _____	SID: _____
Address: _____	Phone: _____
_____	

The following courses represent an approved GIS Certificate of \_\_\_\_\_ credits

**CENTRAL WASHINGTON UNIVERSITY COURSES:**

COURSE NO.	COURSE TITLE	CREDITS	QTR/YR
GEOG 301	Introduction to GIS & Maps	4	
GEOG 303	GIS & Data Management	5	
GEOG 404	GIS Analysis	5	
GEOG 330	Airphoto Interpretation	5	
GEOG 430	Remote Sensing	5	
A minimum of 8 credits from approved electives.		8	
CMGT 267	Plane Surveying	3	
CS 110	Programming Fundamentals I	4	
CS 111	Programming Fundamentals II	4	
CS 301	Data Structures	4	
GEOG 309	Quantitative Methods in Geography	5	
GEOG 417	Advanced GIS	4	
GEOG 485	Topics in GIS and Remote Sensing	4	
GEOG 490	Cooperative Education (with GIS focus)	1 to 12	
GEOG 496	Individual Study (with a GIS focus)	1 to 6	
<b>TOTAL CREDITS</b>		<b>32</b>	

Note: Students are be required to have a 2.7 average (B-) in the GIS certificate classes with a minimum grade of C-.

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**It is understood that changes in this program will require submission of a revised course list by the student in consultation with his/her advisor. Revised progrms must be approved by the student's advisor and the Department Chair.**

Director's Signature \_\_\_\_\_ Date \_\_\_\_\_

Chair's Signature \_\_\_\_\_ Date \_\_\_\_\_