College of Architecture and Planning
Degree Planning Guide
GIS Certificate/ MURP

Advisor: _____

Student Name: _____   Sem/Yr Entered: _____

Course Number	Course Name	Sem. Offered	Credits	Advisor Initials if Waived*	Semester Completed
MURP CORE REQUIREMENTS					
URPL 5000	Planning History and Theory	F	3		
URPL 5010	Planning Methods	F	3		
URPL 5020	Planning Law and Institutions	F	3		
URPL 5030	The Planning Profession	F	3		
URPL 5040	Urban Sustainability	S	3		
URPL 5050	Urban Development	S	3		
URPL 5060	Planning Workshop	F/S	6		
URPL 6000	Planning Project Studio	F/S/Su	6		
URPL 6900	Planning Capstone (or URPL 6920/6925 Planning Thesis A & B)	F/S/Su	6		
	TOTAL CORE CREDITS		**36**		
MURP ELECTIVE COURSES (Must be MURP courses)					
		F or S	3		
		F or S	3		
		F or S	3		
		F or S	3		
	TOTAL ELECTIVE CREDITS		**12**		
GIS CERTIFICATE COURSES					
Introductory GIS Course: 3 Credits (Take either of these courses)					
URPL 6250	GIS Analysis	F or S	3		
URPL 6800	Introduction to GIS	F or S			
Advanced GIS Course: 3 credits					
URPL 6260	Advanced Geospatial Methods	F or S	3		
Remote Sensing: 3 credits (Take one of these courses)					
GEOG 5060	Remote Sensing I		3		
GEOG 5070	Remote Sensing II				
GEOG 4093	(at CU Boulder) Remote Sensing of the Environment				
Specialized Advanced Courses: 9 credits (Take three of the courses listed below)					
		F or S	3		
		F or S	3		
		F or S	3		
	TOTAL CERTIFICATE CREDITS		**18**		
	TOTAL CREDITS FOR GRADUATION		**66**		
* Documentation, advisor and Department Chair approvals must be submitted to Student Services for waived courses					

NOTES:
A maximum of 2 GIS certificate courses may be counted towards the MURP degree
For certificate credit, a B- or better is required in all GIS courses

Possible Specialized Advanced Courses:

- ARCH 6290/HIPR 6090 - Three-D Digital Documentation (prereqs: Arch 5110 and 5120)
- GEOG 5081 - Cartography and Computer Mapping
- GEOG 5090 - Environmental Modeling with GIS
- GEOG 5085 - GIS Applications for the Urban Environment
- GEOG 5230 - Hazard Mitigation and Vulnerability
- GEOG 5095 - Deploying GIS Functionality on the Web
- CVEN 5382 - GIS Spatial Database Development
- CVEN 5385 - GIS Relational Database Systems
- MATH 4027/5027 - Applied Spatial Statistics - (prereqs: Intro. to Statistics, plus instructor consent)
- CVEN 5800 - Geomatics for GIS
- LDAR 6686 – Advanced Topics in GIS
- Any course from the Remote Sensing list (above) not already used to fulfill that requirement
- Up to 3 credits from a studio course where intensive GIS is used. This must be done by submitting a petition to the GIS Certificate coordinators describing the GIS activities undertaken.*
- Up to 3 credits for an internship using GIS in a planning or design context, also by petition. Please see the GIS Certificate coordinators before you start the process of looking for an internship.*
- Up to 3 credits for a capstone project featuring GIS. Please see the GIS Certificate coordinators if you are interested in pursuing a GIS-related capstone project.*
- Other relevant courses by permission

*A total of 6 credits of studio, internship, and capstone project can be combined towards your specialized advanced courses.