

Advisor: \_\_\_\_\_

Student Name: \_\_\_\_\_ Sem/Yr Entered: \_\_\_\_\_

Course Number	Course Name	Sem. Offered	Credits	Advisor Initials if Waived*	Semester Completed
<b>MURP CORE REQUIREMENTS</b>					
URPL 5000	Planning History and Theory	F	3		
URPL 5010	Planning Methods	F	3		
URPL 5020	Planning Law and Institutions	F	3		
URPL 5030	Planning Technologies	F	3		
URPL 5040	Urban Sustainability	S	3		
URPL 5050	Urban Development	S	3		
URPL 5060	Planning Workshop	F/S	3		
URPL 5070	Planning Engagement	F	3		
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		
<b>TOTAL CORE CREDITS</b>			<b>36</b>		
<b>MURP ELECTIVE COURSES (Must be MURP courses)</b>					
		F or S	3		
		F or S	3		
		F or S	3		
		F or S	3		
<b>TOTAL ELECTIVE CREDITS</b>			<b>12</b>		
<b>GIS CERTIFICATE COURSES</b>					
Introductory GIS Course: 3 Credits (Take either of these courses)					
URPL 6250	GIS for Urban Planning	F	3		
Advanced GIS Course: 3 credits					
URPL 6260	Advanced Geospatial Methods	S	3		
Remote Sensing: 3 credits (Take one of these courses)					
GEOG 5060	Remote Sensing I		3		
GEOG 5070	Remote Sensing II				
Specialized Advanced Courses: 9 credits (Take three of the courses listed below)					
		F or S	3		
		F or S	3		
		F or S	3		
<b>TOTAL CERTIFICATE CREDITS</b>			<b>18</b>		
<b>TOTAL CREDITS FOR GRADUATION</b>			<b>66</b>		
* 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:**

- GEOG 5050 Applied Spatial Statics
- GEOG 5081 - Cartography and Computer Mapping
- GEOG 5085 GIS Applications for the Urban Environment
- GEOG 5090 - Environmental Modeling with GIS
- GEOG 5091 Open Source Software for Geospatial Applications
- GEOG 5092 GIS Programming and Automation
- GEOG 5230 - Hazard Mitigation and Vulnerability
- GEOG 5235 GIS Applications in Health Sciences
- GEOG 5095 - Deploying GIS Functionality on the Web
- CVEN 5382 Geospatial Data Development
- CVEN 5385 GIS Relational Database Systems
- CVEN 5390 Interactive Web Mapping GIS
- MATH 4027/5027 - Applied Spatial Statistics
- 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.