

GEO-GEOG 2850/4850 – Geospatial Capstone			
GTCM (2014)			
Student Learning Objective	Tier Number	Subdivision	Comments
Unit 1: Project Management			
Students will learn to describe a project and the difference between a project, program and product.	Tier 3, Tier 4, Tier 5	3.7: Business Fundamental (Marketing, Geospatial Fundamentals) 4.1: Core Geospatial Abilities and Knowledge (Data Quality) 5.1: Positioning and Data Acquisition (Critical Work Functions)	
Students will describe the constraints of projects and the framework within which project management works with stakeholders, knowledge areas, tools/techniques and portfolios.	Tier 1, Tier 3, Tier 4, Tier 5	1.6: Lifelong Learning (Integrating and applying learning) 3.7: Business Fundamental (Marketing, Geospatial Fundamentals) 4.1: Core Geospatial Abilities and Knowledge (Data Quality) 5.1: Positioning and Data Acquisition (Critical Work Functions)	
Unit 2: Project Life Cycle			
Students will describe organized systems, structures, boundaries, and the roles of users, sponsors and stakeholders within and outside of the organization in relationship with a project.	Tier 3	3.1: Teamwork (Establishing Productive Relationships) 3.2: Creative Thinking (Seeing the big picture)	
Students will describe the procurement process, using the statements of work and requests for proposals	Tier 3	3.2: Creative Thinking (Seeing the big picture) 3.3: Planning and Organizing 3.7: Business Fundamentals (Geospatial Fundamentals)	
Unit 3: Project Scope			
Students will describe how strategic planning should influence projects undertaken by an organization.	Tier 3	3.2: Creative Thinking (Seeing the big picture) 3.3: Planning and Organizing 3.7: Business Fundamentals (Geospatial Fundamentals)	
Students will describe the importance, use and design of a project character.	Tier 3, Tier 5	3.2: Creative Thinking (Seeing the big picture) 3.3: Planning and Organizing 3.7: Business Fundamentals (Geospatial Fundamentals) 5.3: Software and Application Development (Design Aspects)	
Unit 4: Communication			
Students will describe communication planning, and the best use of communication skills, tools, and technology for documenting the project.	Tier 3	3.2: Creative Thinking (Seeing the big picture) 3.3: Planning and Organizing 3.5: Working with tools and technology (Keeping current on tools and technology) 3.7: Business Fundamentals (Geospatial Fundamentals)	
Unit 5: Time Management			
Students will describe the use of workflow planning and the tracking of projects tasks	Tier 3	3.3 Planning and Organizing (Time Management)	
Unit 6: Cost Management			
Students will describe the basic principles and concepts of cost management and the relationship between cost management and project resources.	Tier 3	3.2: Creative Thinking (Seeing the big picture) 3.3: Planning and Organizing (Time Management) 3.7: Business Fundamentals (Geospatial Fundamentals)	
Unit 7: Qualitative Planning and Assurance			
Students will describe benchmarking as a tool for quality assurance, quality control, and management.	Tier 3	3.2: Creative Thinking (Seeing the big picture) 3.3: Planning and Organizing (Time Management) 3.7: Business Fundamentals (Geospatial Fundamentals)	
Unit 8: Qualitative Risk Analysis			
Students will describe strategies to respond to risk including avoidance, acceptance, transference, and mitigation	Tier 3	3.3 Planning and Organizing 3.7: Business Fundamentals (Geospatial Business Fundamentals)	
Unit 9: Project Integration			
Students will describe how the system view of an organization and integrated change control processes are important to geospatial projects.	Tier 3	3.3 Planning and Organizing 3.7: Business Fundamentals (Geospatial Business Fundamentals)	
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