

**GIS TECHNICIAN DACUM TASKS MAPPED TO SAN DIEGO MESA COLLEGE COURSES**

DACUM TASKS	Courses					
	110	111	112	113	270	114*
A-1 Define data requirements		X	X	X	X	X
A-2 Research available data	X	X	X	X		X
A-4 Develop databases (e.g. define geometry, attributes)						X
A-5 Define feature relationships/behaviors (e.g. relate tables, relationship classes)	X					X
A-6 Define feature behaviors (e.g. sub-types & domains)						X
A-8 Perform tablet digitization (E)						
A-9 Perform "heads-up" (on-screen) digitization (E)		X				
A-10 Geocode data (E)		X				
A-11 Determine data compatibility (e.g. projections ) (E)	X	X				
A-12 Perform data conversions (e.g. between formats) (E)	X	X				X
A-13 Populate GIS feature attributes (E)		X				X
A-14 QA/QC data (E)	X	X	X	X		X
A-15 Create metadata (E)	X	X	X	X		X
A-16 Collect field location data via GPS (E)		X				
A-17 Collect field attribute data (E)		X				
B-1 Scan hard copy images (E)		X				
B-2 Georeference digital imagery		X				
B-3 Rectify images		X				
B-4 Perform image analysis (e.g. classification)			X			
C-3 Edit GIS data (e.g. add, delete, update) (E)	X	X	X	X		X
C-4 QA/QC data (E)	X	X	X	X		X
C-5 Refresh/ replace layers (e.g. imagery, thematic layers)						X
C-6 Convert between data formats	X	X				X
C-7 Conduct database performance tuning (e.g. compress, build stats, index)						
C-8 Update metadata (E)	X					X
D-1 Create Models (e.g. process & scientific models, flow charts)			X	X		
D-2 Create scripts				X		
D-3 Pre-process Data (e.g. generalize, subset)			X			
D-4 Conduct Geoprocessing (e.g. clip, buffering, overlay, run models)		X	X	X		
D-5 Generate statistics (e.g. descriptive, spatial)			X	X		
D-6 QA/QC Data		X	X	X		X
D-7 Interpret Results		X	X	X		X
E-1 Create maps (E)	X	X	X	X		X
E-2 Create analysis reports (E)			X	X		
E-3 Create charts (E)		X				
E-4 Create tables (E)		X				X
E-5 Generate mailing labels (E)						
E-6 Create graphic items (e.g. logos, headers, posters, exhibits) (E)		X				
E-7 Distribute digital products (E)	X	X	X	X		X
E-8 Distribute hard copy products (E)		X				
F-1 Define user software needs				X		
F-5 Create map templates		X				
F-6 QA/QC software applications (e.g. beta test)						
G-1 Establish data custodianship						
G-2 Organize file structure (e.g. create directories, perform data/directory housekeeping)		X	X	X		X
G-3 Archive / retrieve data (E)						
G-4 Back-up / restore data (E)						
G-5 Distribute data according to organizational policy (E)		X	X	X		X
H-1 Resolve user technical problems		X	X	X		X
H-2 Install Software (e.g. enhancements, service packs)		X	X	X		X
H-3 Write Technical Guides						
H-4 Train GIS end-user(s)						
I-1 Correspond with others (e.g. email, mail, phone)						
I-2 Write informational reports (e.g. progress, technical, procedural, recommendations)		X	X	X		X
I-3 Prepare cost estimates (e.g. time, equipment)						
I-4 Coordinate GIS projects		X	X	X		X
I-5 Represent GIS at meetings (e.g. committees, user groups, organizational conferences) (E)						
I-6 Maintain equipment/ supplies (E)						
I-8 Supervise Interns						
I-9 Participate in public relations activities (E)						
J-1 Participate in professional conferences (e.g. oral/poster submissions, publish/submit articles) (E)						
J-2 Participate in GIS user groups (E)						
J-3 Take advanced training courses (e.g. technical training & education courses)						
J-4 Cross-train within organization						

\* GISG114 begins spring 2009

E = Entry Level Task

DACUM conducted in 2005