

2010 CMap Institute: Participants Objectives and Schedule

MONDAY

Day/Time	Activity	Description
MON 8:00-9:00	Welcome	<ul style="list-style-type: none"> • Introductions / Logistics/Week Overview <ul style="list-style-type: none"> ○ Parking ○ Resources & Handouts ○ Geographic Introduction • Geographic Introduction Class Expectations <ul style="list-style-type: none"> ○ Your CMap Project ○ Credit (Credit Request Form)
MON 9:00-9:45	Pre-Project Basics: Introduction to CMap	<ul style="list-style-type: none"> • Overview of CMap • Introduction to GIS <ul style="list-style-type: none"> ○ Geospatial Revolution • Local CMap projects <ul style="list-style-type: none"> ○ Recycle Project • Introduction to Class Resources <ul style="list-style-type: none"> ○ Website www.uen.org/cmap ○ Download CMap Template ○ Wikispace cmap-ut.wikispaces.com
MON 9:45-10:00	Pre-Project Basics: Spatial Inquiry – What do kids need to understand about <u>spatial</u> ?	<ul style="list-style-type: none"> • Asking spatial questions <ul style="list-style-type: none"> ○ Spatial Challenge: Guess the Locations
Break 10:00-10:15	Break	
MON 10:15-12:00	Sign for GPS Units:	<ul style="list-style-type: none"> • Distribute GPS Units <ul style="list-style-type: none"> ○ Navigate Screens • Earth Cache- Go outside • GPS Hide and Seek Activity
MON 12:00-1:00	Lunch - on your own	
MON 1:00-2:00	GPS exploration and discovery inside:	<ul style="list-style-type: none"> • Learn more about GPS- <ul style="list-style-type: none"> ○ GPS videos ○ UTM Grid • Map Activity <ul style="list-style-type: none"> ○ Topo Bingo • Map Reading Skills
MON 2:00-3:00	GIS exploration and discovery inside:	<ul style="list-style-type: none"> • Getting Started with GIS: ESRI <ul style="list-style-type: none"> ○ Register at ESRI Virtual Campus ○ File management ○ Module 1: The Big Picture of GIS from ESRI Virtual Campus
MON 3:00-3:15	Break	
MON 3:15- 4:30	GIS exploration and discovery inside:	<ul style="list-style-type: none"> • Continue: The Big Picture of GIS • Self Exploration

MON 4:30- 4:45	GIS online data exploration and discovery inside:	<ul style="list-style-type: none"> • Introduce ArcGIS Online <ul style="list-style-type: none"> ○ http://www.arcgis.com ○ ArcGIS Resource Center http://resources.arcgis.com/ • Wrap-up
MON 4:45-5:00	Take your Pulse	<ul style="list-style-type: none"> • How are you doing? Play with GPS Unit at home.

TUESDAY

TUES 8:00-9:00	Welcome to Day 2 GPS Exploration & Practice	<ul style="list-style-type: none"> • Meet outside to track your Initials and Geometric Shapes • Downloading Tracks in Google Earth and ArcMap
TUES 9:00 – 10:15	ArcMap Explore:	<ul style="list-style-type: none"> • Brief Introduction to Utah Data <ul style="list-style-type: none"> ○ GIS Portal site • Download Data • Measure & Draw tools • Layout – Export as .jpg • Save Project
Break- 10:15-10:30	Break	
TUES 10:30-12:00	Building Community Relationships:	<ul style="list-style-type: none"> • Community GIS partner presentation.
TUES 12:00-1:30 LUNCH	Building Community Relationships: Community Introductions	<ul style="list-style-type: none"> • Lunch and discussion with community members interested in working with students
TUES 1:30-2:00	Building Community Relationships:	<ul style="list-style-type: none"> • Definition & Compare <ul style="list-style-type: none"> ○ Place-based education ○ Project-based learning ○ Community-based learning • Definition share • Introduce CMAP project components: • Community Partners Brainstorm • Share ideas learned
TUES 2:00-3:30	Project Planning: Project Brainstorm and Feasibility Assessment	<ul style="list-style-type: none"> • Project Planning <ul style="list-style-type: none"> ○ Realistic project expectations ○ Backward Design • Project Ideas <ul style="list-style-type: none"> ○ View Past CMAP Project • Project Brainstorm <ul style="list-style-type: none"> ○ Write down Project ideas and possible partners ○ Speed Date Activity

TUES 3:30-3:45	Break	
TUES 3:45-4:45	Project Planning:	<ul style="list-style-type: none"> • Begin Project Planning <ul style="list-style-type: none"> ○ Sample Community Letters ○ Project Template ○ 9 square Planning Document
TUES 4:45-5:00	Take your Pulse	<ul style="list-style-type: none"> • How are you doing? • List some of your project ideas • What are we forgetting?

WEDNESDAY

WED 8:00-8:30	Project Planning: Define, organize and design a CMAP Project	<ul style="list-style-type: none"> • Questions & Review
WED 8:30-9:30	Project Implementation: Gathering New Data Fieldwork	<ul style="list-style-type: none"> • Attribute Tables • Data collection project • Data Gathering Techniques
WED 9:30-10:30		<ul style="list-style-type: none"> • Data Collection Activity • Download Data points into ArcMap • Attribute Table Editing • Data Display • Layouts - Making Maps • Software Discussion
Break- 10:15-10:30	Break	
WED 10:30-12:00	Project Implementation: Transferring Field Data to GIS	<ul style="list-style-type: none"> • Software Distribution • DNR Garmin Overview • Add Utah Data to ArcMap
WED 12:00-1:00		
WED 1:00-3:15 (USU)	Project Planning: Define, organize and design River Water Quality Project. Meet our Community Partners Eric Peterson USU Water Quality Extension (435) 797-3310 eric.peterson@aggiemail.usu.edu	<ul style="list-style-type: none"> • Introduction of Water Quality Project <ul style="list-style-type: none"> ○ Presentation from USU ○ Learn to use measurement tools
Break 3:15-3:30	Break	
WED 3:30-4:45	Work Time:	<ul style="list-style-type: none"> • Work time: <ul style="list-style-type: none"> ○ Project Template ○ Data Collection project ○ www.arcgis.com ○ Online Resources ○ GIS Portal Data downloads

		○ Arc Lessons
WED 4:45-5:00	Take Your Pulse	• How are you doing?

THURSDAY

THURS 8:30-11:45 (USU)	Project Implementation: Water Quality Fieldwork	<ul style="list-style-type: none"> • Meet at class/carpool to river • Participants gather & record data: GPS waypoints and water quality readings for <i>Temperature, Turbidity, pH, and Dissolved Oxygen</i>
THURS 11:45-12:45	Lunch on your own OR	Bring sack lunch to picnic in park
THURS 1:00-3:00	Project Implementation: Transferring Field Data to GIS Creating Water Quality Project	<ul style="list-style-type: none"> • Transfer GPS points • Bring Data in Water Quality project • Edit Tables of GPS waypoints
3:00-3:15	Break	
THURS 3:15-4:15	Project Implementation: Advanced GIS Skills	<ul style="list-style-type: none"> • Join tables • Hot link photos • Map layout • Export map
THURS 4:15-4:45	Project Management: Ongoing Project Evaluation and Assessment	<ul style="list-style-type: none"> • Project evaluation • Skills assessment • Transferability
THURS 4:45-5:00	Take your Pulse	• How are you doing?

FRIDAY

FRI 8:00-9:30	Project Implementation: Finish Products	<ul style="list-style-type: none"> • Create final map products • Discuss skills for presentations • Practice presentations
Break 9:30 – 9:45		
FRI 9:45-11:30	Project Implementation: Project Presentations & Celebrations	<ul style="list-style-type: none"> • Celebrations: Participant presentations • Feedback & Response • Where to get help?
FRI 11:30-12:30		
FRI 12:30-1:00	Project Implementation:	<ul style="list-style-type: none"> • Fieldwork- So What? Share lessons learned • Project Template • Explore ArcGIS Online <ul style="list-style-type: none"> ○ http://www.arcgis.com ○ ArcGIS Resource Center

FRI 12:30-1:00	Project Implementation:	<ul style="list-style-type: none"> • Fieldwork- So What? Share lessons learned • Project Template • Explore ArcGIS Online <ul style="list-style-type: none"> ○ http://www.arcgis.com ○ ArcGIS Resource Center http://resources.arcgis.com/
1:00-1:45	Project Implementation:	<ul style="list-style-type: none"> • CMap Class Resources • GIS Mailing List • Join Utah Geographic Alliance • Join GIS Portal • Desk Copies for ESRI – Map book
1:45 -3:00	Project Management:	<ul style="list-style-type: none"> • Complete workshop evaluation • Complete <i>Credit Forms</i> • Send off!