

# GRACE Internship Training Course Requirements' Matrix 2017-18 Grant Year

Dear GRACE Internship Training Program participants:

I am pleased to inform you that we are making significant changes to the GIS training content for the grant year, 2017-2018:

1. We changed the primary GIS software from ArcGIS Desktop to **ArcGIS Pro**. The ribbon-style software package, ArcGIS Pro, is much easier to learn and the short training modules of ArcGIS Pro help trainees complete them.
2. We provide **three Internship types** to encourage a broad student population at many locations to participate as GRACE interns:
  - a) **Professional Interns** (*16-18 years old OR 11th and 12th grade high school students*)
    - Work at a work-site;
    - Complete **Option I: Professional GIS Career Pathway Internship Training** either before the internship start, or during the internship weeks using student personal time, or using any personal time before the end of the summer month of August 2018;
    - **Receive \$1,200 stipends** when completing the internship assignments as well as submitting the completion certificates of all required training modules.
  - b) **Hybrid Learning-Professional Interns** (*16-18 years old OR 11th and 12th grade high school students*)
    - Work in school computer labs on meaningful hands-on GIS projects that are requested or supported by GIS professionals or by teacher intern champions, community agencies, or industries;
    - Complete **Option I: Professional GIS Career Pathway Internship Training OR Option II: STEM College Pathway GIS Internship Training** either before the internship starts, or during the internship weeks using student personal time, or using any personal time before the end of the summer month of August 2018;
    - **Receive \$1,200 stipends** when completing the internship assignments as well as submitting the completion certificates of all required training modules.
  - c) **STEM Practice Interns** (*high school or middle school students*)
    - Work in school computer labs or community organizations/agencies on GIS inquiry projects designed jointly by teacher intern champions and community partners;
    - **Receive \$1,200 stipends** when completing the internship assignments and, also, as well as submitting the completion certificates of all training modules of **One Training Option (either Professional Pathway OR STEM College Pathway)**; or
    - **Receive \$320 stipends** when completing the internship assignments, including creating story maps of the projects, and submitting completion certificates for the required training modules under the course collection named either as, **Option II: Part A or Part B**.

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## Option I:

**Professional GIS Career Pathway Internship Training** (35.5 hours total)

*(Both Parts A and B are REQUIRED for this training option)*

**Part A:** ArcGIS Pro Fundamentals (23 hours)

**Part B:** Mapping, visualization, image analysis and sharing your map (12.5 hours)

**Optional:** Additional Courses for Spatial analytics (15.25 Hours - *not required*)

## Option II: STEM College Pathway GIS Internship Training

 (30 hours total)

**Part A:** ArcGIS Online Fundamentals (14.75hours)

**Part B:** ArcGIS Pro Basic (15.25 hours)

Internship Pathway Option • = Required, O = Optional		Option I <i>Professional GIS Career Pathway</i>		Option II <i>STEM College Pathway</i>	
Course Title	Duration (Hours)	Pt. A 23 hrs	Pt. B 12.5 hrs	Pt. A 14.75 hrs	Pt. B 15.25 hrs
Using ArcMap in ArcGIS Desktop 10	3.0	O		•	
Getting Started with ArcGIS Pro	5.5	•			•
Displaying Data in ArcGIS Pro	1.25	•			•
3D Visualization Using ArcGIS Pro	2.25	•			
Managing Map Layers in ArcGIS Pro	1.0	•			•
Querying Data Using ArcGIS Pro	0.5	•			•
Integrating Data in ArcGIS Pro	1.25	•			•
Preparing to Perform Analysis Using ArcGIS Pro	1.25	•			•
Editing Basics in ArcGIS Pro	2.0	•			
Automating Workflows Using ArcGIS Pro Tasks	4.5	•			
Sharing Maps and Layers with ArcGIS Pro	3.5	•			•
Cartographic Creations in ArcGIS Pro	2.0		•		
Creating and Sharing Animation in ArcGIS Pro	1.5		•		

Creating Vector Tiles in ArcGIS Pro	1.5		•		
Displaying Raster Data Using ArcGIS Pro	2.75		•		
Classify Land Cover to Measure Shrinking Lakes	1.25		•		
Get Started with Survey123 for ArcGIS	1.5	○		•	
Inform and Engage Your Audience with Esri Story Maps	1.0		•		•
Creating and Sharing GIS Content Using ArcGIS Online	2.5		•	•	
Get Started with ArcGIS Online	0.75			•	
Getting Information from a GIS Map	1.5			•	
Using GIS to Solve Problems	1.5			•	
Telling Stories with GIS Maps	1.0			•	
Fight Child Poverty with Demographic Analysis	1.5			•	
Analyze Volcano Shelter Access in Hawaii	1.5			•	
Distance Analysis Using ArcGIS Pro	3.5	○			
Terrain Analysis Using ArcGIS Pro	2.75	○			
Performing Viewshed Analysis in ArcGIS Pro	1.0	○			
Generating Service Areas Using ArcGIS Pro	1.0	○			
Building Geoprocessing Models Using ArcGIS Pro	2.5	○			

**QUESTIONS, FURTHER INFORMATION:**

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