ABOUT THE INSTRUCTOR

TRIPP CORBIN, MCP, CFM, GISP,

Esri Certified Desktop Professional and ESRI Certified Enterprise System Design Associate, is an award winning GIS Professional with over 20 years of experience. During those 20 years, he has worked in many aspects of GIS from field data collection and data creation to project management and client support. He is recognized as an industry expert with a variety of geospatial software packages including Esri, Autodesk, Leica and Trimble products. He is also the author of Learning ArcGIS Pro from Packt Publishing.

NATHANIEL KEITH

has over 10 years of GIS experience and a GIS Certificate from the University of North Georgia. He is proficient with Hexagon ErDAS Imagine and Apollo as well as Esri's ArcGIS and Autodesk's AutoCAD platforms. Nathaniel not only teaches others how to use these technologies but works with them on a daily basis to solve real world problems and issues for City and County governments.

JOSHUA KNIGHT

is a Senior GIS Consultant and Instructor for eGIS Associates. With over 20 years of GIS and Surveying experience Joshua is well versed in multiple applications and platforms including Esri, Autodesk, Leica and Trimble. Joshua as assisted with the implementation of Esri enterprise GIS technologies to improve the business workflows for local governments as well as private sector companies.

UNA'S ONLINE GIS ANALYST CERTIFICATE PROGRAM
Exemption Policy For Introduction to ArcGIS I and/or Introduction to ArcGIS II

1. Provide proof of having taken a similar course from a college, university or vendor.
2. Pass the exemption exam(s) with an 80%. The fee to take the exemption exam(s) is $100.00 each. Student will have 24 hours to complete and return the exam(s).

Please contact Meghan Fike for further information at mmfike@una.edu or 256-765-4289.

Frequently Asked Questions: About UNA's Online GIS Analyst Certificate Program

What is an Instructor Led Online Class?
An instructor led online class provides flexibility offered by online classes combined with the benefit of student and instructor interaction. The class meets online with a live instructor who conducts lectures and gives live demonstrations of the skills and software being used in each course. Students can ask the instructor questions during the course sessions as if they were in a traditional classroom.

Do I have to take all the Courses?
In order to get the certificate you must take all courses; however, if you are just looking to update your skills in a specific area you may sign up for individual classes. An exemption policy and exam is in place for Introduction to ArcGIS I and/or Introduction to ArcGIS II if you can provide proof of having taken one of these courses.

What happens if I miss a session?
We will try to record each class session and make those available for download to each enrolled student.

What will the computer requirements be?
You will need a reliable high-speed internet connection and either a speakerphone or computer speakers and a microphone. If you dial in using a phone, you are responsible for any long distance charges that might be incurred.

Will I need GIS Software?
Yes, you will need access to Esri's ArcGIS Software for these classes. For students taking only one class, you can download free trial versions of the software from Esri's website. For those enrolling in the full certificate program, we recommend you purchase an ArcGIS for Home Use license from Esri. This Includes: ArcGIS for Desktop Advanced (ArcMap and ArcGIS Pro) • The most popular ArcGIS for Desktop extensions • ArcGIS for Desktop software updates • ArcGIS Online (One Named User Account, 100 service credits for data storage, premium data access, geocoding and analysis, and a suite of ready-to-use web and mobile apps for use anywhere, on any device • A Living Atlas of the World with maps and data, including access to foundation content from Esri, on thousands of topics • Installation support

Where can I get the textbooks?
You can order the textbooks from just about any online bookstore including Amazon, Barnes & Noble, Google Books, and Esri Press. Since non-credit courses are subject to cancellation if there is insufficient enrollment, please do not purchase your textbook until you are notified by UNA Continuing Education that the course will be held.

Do these classes count as points for the GISP Certification?
Yes, they count as education points toward getting or maintaining the GISP Certification

Will I get one of the Esri Technical Certifications when I complete the program?
No, you will not get an Esri Technical Certification upon completion of the Certificate program. However, the program does cover much of the material and subject matter associated with the ArcGIS Desktop Associate and Professional Certifications.

Who Should Attend: Anyone wishing to enter into the field of Geographic Information Systems (GIS) or wanting to learn how to use GIS in their current job or profession.

FAST & EASY REGISTRATION

HOW TO REGISTER:

ONLINE
www.una.edu/continuing-studies

BY PHONE
Our registration office is open from 8 a.m. to 4:30 p.m. Monday through Friday. We accept Discover, MasterCard and Visa. We also accept company purchase orders. **Call (256)765-4862 or 1(800)-825-5862, ext. 4862.**

VIA FAX
Simply fax the attached registration form any time day or night to (256) 765-4872. All fax orders must contain a credit card number unless we are invoicing your company.

IN PERSON
During our office hours, come by our office at UNA East Campus, 1640 Tune Ave., Florence.

MAIL
Complete the attached registration form and mail with your check or credit card information (don't mail cash) to Continuing Education & Outreach, UNA Box 5036, University of North Alabama, Florence, Alabama 35632-0001.

Cancellations: If you must cancel, notify us three days in advance for a full refund. Later cancellations may receive credit toward future workshops if requested by the date of the seminar. Participant substitution may be made at any time.

Course Cancellations: Non-credit courses are subject to cancellation if there is insufficient enrollment. Continuing Education & Outreach apologizes for any inconvenience this may cause you. In the event a course is cancelled, a registrant has the option of applying the fees paid to another course or receiving a complete refund.

Registration Form

Name _____ Job Title _____

Company / Organization _____

Mailing Address _____ ❑ Home ❑ Work

City _____ State _____ Zip _____

Phone: (Day) _____ (Evening) _____

Fax _____ Email _____

❑ **Introduction to ArcGIS I: GIS Fundamentals** (September 6 – 29, 2016) - $799

❑ **Introduction to ArcGIS II: Analysis & Editing** (October 18 – December 8, 2016) - $1199

❑ **Using AutoCAD® Data in ArcGIS Desktop** (January 3 – 26, 2017) - $799

❑ **Online GIS Analyst Certificate Program**
$4,999

❑ **Performing GIS Analysis Using ArcGIS** • (February 7 – March 2, 2017) - $799

❑ **Introduction to Model Builder & Python for ArcGIS** • (March 14 – May 11, 2017) - ❑ $1,799

❑ **Learning ArcGIS Pro 1: Fundamentals** • (October 6 - 27, 2016) - ❑ $799

❑ **Learning ArcGIS Pro 2: Analysis, Automation & Sharing** • (November 8 - 15, 2016) - ❑ $399

PAYMENT METHOD *There is a $2.00 registration fee per order.*

❑ **Check Enclosed (payable to UNA)** *Please include course name on lower left side of check.*

❑ **Please invoice company above. If different address than mailing, please provide:**

_____

❑ Purchase Order ❑ Money Order ❑ Visa ❑ MasterCard ❑ Discover

Name on Card (please print) _____

Credit Card # _____ Expiration Date _____

Credit Card Verification# _____

Authorized Signature _____

Please make as many copies of this form as you need.

UNA'S ONLINE GIS ANALYST CERTIFICATE PROGRAM

University of NORTH ALABAMA

- • **INTRODUCTION TO ARCGIS I: GIS FUNDAMENTALS** • September 6 – 29, 2016
- • **INTRODUCTION TO ARCGIS II: ANALYSIS & EDITING** • October 18 – December 8, 2016
- • **USING AUTOCAD® DATA IN ARCGIS™ DESKTOP** • January 3 – 26, 2017
- • **PERFORMING GIS ANALYSIS USING ARCGIS** • February 7 – March 2, 2017
- • **INTRODUCTION TO MODEL BUILDER & PYTHON FOR ARCGIS** • March 14 – May 11, 2017

- • **LEARNING ARCGIS PRO 1: FUNDAMENTALS** • October 6 – 27, 2016
- • **LEARNING ARCGIS PRO 2: ANALYSIS, AUTOMATION & SHARING** • November 8 – 15, 2016

University of
NORTH
ALABAMA
1830

Continuing Education…because learning is a lifelong pursuit.

UNA'S ONLINE GIS ANALYST CERTIFICATE PROGRAM

Introduction to ArcGIS I:
GIS Fundamentals

September 6 – 29, 2016 • Tuesday & Thursday Evenings
6 pm - 8 pm Central Standard Time

COURSE OVERVIEW
This 16 hour course provides the foundation for understanding GIS, what it can do, and how others are using it. Students learn the basic functions of a GIS, GIS Terminology, and why GIS is a powerful tool for data analysis, retrieval and visualization. In course exercises, students work with ArcMap, an application within ArcGIS Desktop, to visualize geographic data, create maps, query a GIS database, perform spatial analysis using common analysis tools, and solve geographic problems using a systematic approach. This course teaches the skills and knowledge needed to take other ArcGIS Desktop courses. Class will include quizzes for each lesson, a final exam and a final project which will make use of the skills learned.

TARGET AUDIENCE: BEGINNER LEVEL
This beginner course is for those who are new to geographic information systems (GIS) and ESRI's ArcGIS Software and that wish to learn what GIS is and the basics of what it can do.

PREREQUISITES & RECOMMENDATIONS
Students should know how to use Windows-based software for basic file management and browsing.

COST
The registration fee is $799 per student. A discounted rate is available if registering for the entire certificate program. Students will receive the following materials: Digital copy of lecture & exercise book, recorded copies of each class session and certificate of completion. *There is a $2.00 registration fee per order.

Introduction to ArcGIS II:
Analysis and Editing

October 18 – December 8, 2016 • Tuesday & Thursday Evenings
6 pm - 8 pm Central Standard Time
No class meeting on the following dates: November 1, 3, 22 & 24

COURSE OVERVIEW
This 24 hour course builds on the skills learned in the Introduction to ArcGIS I course and teaches the range analysis and editing functionality available in the ArcGIS desktop. This hands-on course uses exercises to emphasize practice with ArcMap and ArcCatalog (the primary applications included with ArcGIS Desktop software) to perform common GIS tasks and workflows. The tools for creating and managing geographic data, displaying data on maps in different ways, and combining and analyzing data to discover patterns and relationships are highlighted. Class will include quizzes for each lesson, a final exam and a final project which will make use of the skills learned.

TARGET AUDIENCE: BEGINNER TO INTERMEDIATE LEVEL
This course is for those who have limited knowledge of GIS but little experience with ESRI's ArcGIS Software and wish to learn more about using ArcGIS Desktop to create, edit, and manage GIS data and to create maps.

PREREQUISITES & RECOMMENDATIONS
Students should have completed Introduction to ArcGIS I: GIS Fundamentals or have similar real world experience.

COST
The registration fee is $1199 per student. A discounted rate is available if registering for the entire certificate program. Students will receive the following materials: Digital copy of lecture & exercise book, recorded copies of each class session and certificate of completion. *There is a $2.00 registration fee per order.

Using AutoCAD® Data In ArcGIS™ Desktop

January 3 – 26, 2017 • Tuesday & Thursday Evenings
6 pm - 8 pm Central Standard Time

COURSE OVERVIEW
With the ever increasing need for design and GIS professionals to share data, it is critical that GIS users understand and are able to make use of data created with Autodesk's AutoCAD® or similar software. Using AutoCAD® Data in ArcGIS is a course created by eGIS Associates' experienced instructors that explains the various CAD data formats and how to integrate them into standard ESRI data formats such as shapefiles and geodatabases. Class will include quizzes for each lesson, a final exam and a final project which will make use of the skills learned.

TARGET AUDIENCE
This course is designed for those familiar with ESRI's ArcGIS Desktop software and that need to integrate drawing files created with CAD software such as AutoCAD, IntelliCAD, TurboCAD, or Civil 3D.

PREREQUISITES & RECOMMENDATIONS
Students taking this course should have taken Introduction to ArcGIS II or have similar real world experience. No previous experience with AutoCAD or other CAD software is needed. Students should know how to use Windows-based software for basic file management and browsing.

COST
The registration fee is $799 per student. A discounted rate is available if registering for the entire certificate program. Students will receive the following materials: Digital copy of lecture & exercise book, recorded copies of each class session and certificate of completion. *There is a $2.00 registration fee per order.

Performing GIS Analysis Using ArcGIS

February 7 – March 2, 2017 • Tuesday & Thursday Evenings
6 pm - 8 pm Central Standard Time

COURSE OVERVIEW
The power of GIS comes from the ability to link data and maps together so that multiple layers of information can be overlaid together. GIS users are able to perform various types of analysis based on spatial and attribute relationships using attribute queries, visualization techniques, spatial queries and geoprocessing tools. The results of such analysis can be used to answer a host of questions. Class will include quizzes for each lesson, a final exam and a final project which will make use of the skills learned.

This course will introduce students to the powerful analytical capability of GIS using Esri's ArcGIS Platform. Students will learn how and when to use various types of analysis tools including symbology, queries (spatial & attribute), and geoprocessing tools in ArcToolbox. They will also be shown how these can be linked into a workflow to generate answers to complex questions.

TARGET AUDIENCE
This course is intended for ArcGIS Desktop users that wish to learn how to perform various types of analysis using ArcGIS.

PREREQUISITES & RECOMMENDATIONS
Students taking this course should have taken Introduction to ArcGIS II or have similar real world experience.

COST
The registration fee is $799 per student. A discounted rate is available if registering for the entire certificate program. Students will receive the following materials: Digital copy of lecture & exercise book, recorded copies of each class session and certificate of completion. *There is a $2.00 registration fee per order.

Introduction to Model Builder & Python for ArcGIS

March 14 – May 11, 2017 • Tuesday & Thursday Evenings
6 pm - 8 pm Central Standard Time

COURSE OVERVIEW
Geoprocessing is an essential aspect of GIS that provides the ability to analyze and process geographic data. Geoprocessing tools can be accessed in ArcGIS via ArcToolbox, Model Builder, or Python scripts. Model Builder and Python allow automation and documentation of analysis workflows and processes. ModelBuilder provides a graphical modeling framework for designing and implementing geoprocessing models that can include system tools, scripts, models, and data. This class discusses how ModelBuilder can be used to create advanced procedures and workflows. Models can then be converted to Python scripts. Python is the standard scripting language for ArcGIS. These scripts allow for even greater automation flexibility and integration with other software and processes. This class will cover basic concepts needed to create, modify and run Python Geoprocessing Scripts. Class will include quizzes for each lesson, a final exam and a final project which will make use of the skills learned.

TARGET AUDIENCE
This course is intended for ArcGIS Desktop users who want to use ModelBuilder and Python Scripts to make their geoprocessing tasks more streamlined and efficient.

PREREQUISITES AND RECOMMENDATIONS
Students taking this course should have taken Introduction to ArcGIS II or have similar real world experience. Some basic programming knowledge is preferred but not required.

COST
The registration fee is $1,799 per student. A discounted rate is available if registering for the entire certificate program. Students will receive the following materials: Digital copy of lecture & exercise book, recorded copies of each class session and certificate of completion. *There is a $2.00 registration fee per order.

Learning ArcGIS Pro 1: Fundamentals – Online
Course Deveopled by eGIS Associates

October 6 – 27 • Thursday Afternoons • 12:30 – 4:30 pm Central Standard Time

COURSE OVERVIEW
ArcGIS Pro is Esri's newest desktop GIS application with powerful tools for visualizing, maintaining, and analyzing data. ArcGIS Pro makes use of the modern ribbon interface and 64-bit processing to increase the speed and efficiency of using GIS. It allows users to create amazing maps in both 2D and 3D quickly and easily. This 16 hour course will teach both existing ArcGIS for Desktop users and those new to GIS how they can use ArcGIS Pro to create 2D and 3D maps using ArcGIS Pro. Students will learn terminology associated with ArcGIS Pro and GIS in general. They will gain an understanding of ArcGIS Pro projects and how to manage them.

TOPICS COVERED
Introducing ArcGIS Pro • Using the ArcGIS Pro Ribbon Interface • Creating and managing ArcGIS Pro projects • Creating 2D and 3D maps • Creating printable map layouts • Editing spatial and tabular data

PREREQUISITES AND REQUIREMENTS
This is a beginner level course. No previous GIS Experience is required though a strong understanding of file access and management in Windows is encouraged. Students will need to be assigned an ArcGIS Pro license from their organization prior to class which can be accessed from the web. This should be verified prior to the start of class. Or, you may request a demo license from Esri at http://www.arcgis.com/features/free-trial.html?origin=esricom-Desktop-Pro

COST
The registration fee is $799 per student. Students will receive the following materials: PDF copies of lecture slides, recorded copies of each class session and certificate of completion.
*There is a $2.00 registration fee per order.

Learning ArcGIS Pro 2: Analysis, Automation & Sharing – Online
Course Deveopled by eGIS Associates

November 8 - 15 • Tuesday Afternoons • 12:30 – 4:30 pm Central Standard Time

COURSE OVERVIEW
ArcGIS Pro is Esri's newest desktop GIS application with powerful tools for visualizing, maintaining, and analyzing data. ArcGIS Pro makes use of the modern ribbon interface and 64-bit processing to increase the speed and efficiency of using GIS. It allows users to create amazing maps in both 2D and 3D quickly and easily. This 8 hour course will teach both existing ArcGIS for Desktop users and those new to GIS how they can use ArcGIS Pro to perform GIS analysis, automate processes using ModelBuilder and Python and share maps, projects, layouts and more with others.

TOPICS COVERED
Performing GIS Analysis using ArcGIS Pro Geoprocessing tools • Standardizing workflows using Tasks Automating processes with ModelBuilder & Python • Sharing maps, layouts, projects and processes

PREREQUISITES AND REQUIREMENTS
Students taking this course should have completed the Learning ArcGIS Pro 1: Fundamentals or have similar real world experience using ArcGIS Pro. Students will need to be assigned an ArcGIS Pro license from their organization prior to class which can be accessed from the web. This should be verified prior to the start of class. Or, you may request a demo license from Esri at http://www.arcgis.com/features/free-trial.html?origin=esricom-Desktop-Pro

COST
The registration fee is $399 per student. Students will receive the following materials: PDF copies of lecture slides, recorded copies of each class session and certificate of completion.
*There is a $2.00 registration fee per order.

TEXTBOOK & SOFTWARE INFORMATION:
(Not Included In Course Fee)
Introduction to ArcGIS I: GIS Fundamentals
Introduction to ArcGIS II: Analysis & Editing
Getting to Know ArcGIS for Desktop – Authors: Michael Law & Amy Collins; Third Edition.

Performing GIS Analysis Using ArcGIS
GIS Tutorial 2: Spatial Analysis Workbook - Author David W. Allen; Third Edition
Recommended Supplements – Esri Guide to GIS Analysis Volume 1: Geographic Patterns & Relationships – Author: Andy Mitchell; First Edition • Esri Guide to GIS Analysis Volume 2: Spatial Measurements & Statistics – Author: Andy Mitchell; First Edition.

Introduction to Model Builder & Python for ArcGIS
Getting to Know ModelBuilder for ArcGIS – Author: David W. Allen • Programming ArcGIS 10.1 with Python Cookbook – Author: Eric Pimpler; First Edition (Digital Download will be provided and is included in course fee. Hardcopy may be purchased if preferred).
Recommended Supplement - Python Scripting for ArcGIS – Author Paul A. Zandbergen; First Edition.

Learning ArcGIS Pro 1: Fundamentals
Learning ArcGIS Pro 2: Analysis, Automation & Sharing
Learning ArcGIS Pro – Author: Tripp Corbin, GISP

PDF Downloads:
PDF download of class lectures and additional materials will be made available. Students will need to download the evaluation software version from Esri or purchase the home edition from Esri at
http://www.esri.com/software/arcgis/arcgis-for-home

*** Since non-credit courses are subject to cancellation if there is insufficient enrollment, please do not purchase your textbook until you are notified by UNA Continuing Education that the course will be held.**

SOFTWARE USED:
ArcGIS Desktop Basic (Formerly ArcView)10; ArcGIS Desktop Standard (Formerly ArcEditor)10; ArcGIS Desktop Advanced (Formerly ArcInfo)10