

UNA'S ONLINE GIS ANALYST CERTIFICATE PROGRAM

- **INTRODUCTION TO ARCGIS I: GIS FUNDAMENTALS**
September 15 – October 8, 2015

- **INTRODUCTION TO ARCGIS II: ANALYSIS & EDITING**
October 27 – December 3, 2015

- **USING AUTOCAD® DATA IN ARCGIS™ DESKTOP**
January 5 – 28, 2016

- **PERFORMING GIS ANALYSIS USING ARCGIS**
February 16 – March 10, 2016

- **INTRODUCTION TO MODEL BUILDER
& PYTHON FOR ARCGIS**
March 29 – May 26, 2016

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**UNA'S ONLINE GIS ANALYST
CERTIFICATE PROGRAM**

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Florence, Alabama
Permit No. 371

Introduction to ArcGIS I: *GIS Fundamentals*

**September 15 – October 8, 2015 • 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.

Introduction to ArcGIS II: *Analysis and Editing*

**October 27 – December 3, 2015 • Tuesday & Thursday Evenings
6 pm - 8 pm Central Standard Time**

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.

Using AutoCAD® Data In ArcGIS™ Desktop

**January 5 – 28, 2016 • 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.

Performing GIS Analysis Using ArcGIS

**February 16 – March 10, 2016 • 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.

Introduction to Model Builder & Python for ArcGIS

March 29 – May 26, 2016 • 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.

TEXTBOOKS: (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.

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

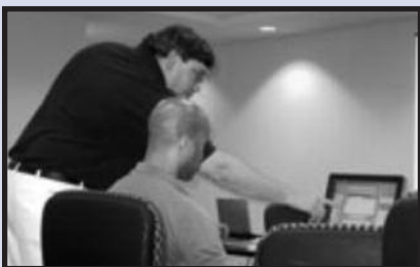
<http://www.esri.com/software/arcgis/arcgis-for-home>

**** 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

ABOUT THE INSTRUCTOR



TRIPP CORBIN, GIS Certified Professional and Esri Certified Desktop Professional, has over 20 years of experience in GIS and Mapping. 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. Tripp is familiar with many of the most common GIS and mapping software packages including ArcGIS, ArcView GIS, ArcInfo®, ArcIMS®, AutoCAD®, Autodesk Map®, MapGuide®, and Microstation®.



Esri Certified
Enterprise
Associate



Esri Certified
Trainer



Esri Certified
Desktop
Professional

ArcGIS Desktop Professional



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 Tule Ave., Florence.



MAIL

Complete the attached registration form and mail with your check or credit card information (don't mail cash) to Division of Continuing Education, 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. The Division of Continuing Education 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 _____

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☐ Introduction to Model Builder & Python for ArcGIS • (March 29 – May 26, 2016) - ☐ \$1,799

PAYMENT METHOD

☐ 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.

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