DISCIPLINE-SPECIFIC CERTIFICATES

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AI and Data Analytics in THEM

Artificial Intelligence and Data Analytics in Tourism, Hospitality and Event Management Certificate

This certificate trains students in the applications of Artificial Intelligence and data analytics in tourism, hospitality, and event management. Students have the opportunity to gain specialized knowledge and practice in areas such as artificial intelligence trends, analytic skills, machine learning concepts, technology applications, opportunities, and challenges in industries.

About this Program

- **College:** Health and Human Performance (https://catalog.ufl.edu/UGRD/colleges-schools/UGHHU/)
- **Credits:** 9 | Completed with minimum grades of C or better; courses must be taken at UF.
- Student Learning Outcomes (SLOs) (https://public.tableau.com/app/profile/uf.oipr4918/viz/UFStudentLearningOutcomesCertificatesOnly/StudentLearningOutcomes/?publish=yes)

Certificates must comply with the Certificate Policy.

Requirements

- Current UF undergraduates.
- 2.0 overall GPA.
- Open to students in any major.

Required Courses

Code	Title	Credits
HFT 4442	Artificial Intelligence Revolutions and Applications in Tourism, Hospitality, and Events	3
HFT 4746	Smart Cities, Attractions, and Theme Parks	3
Select one:		3
HFT 4446C	GIS and Spatial Analysis for Tourism and Social Data	
LEI 4930	Data Mining with Social Data	
Total Credits		**9**

AI in Public Health and Healthcare

Artificial Intelligence in Public Health and Healthcare Certificate

The Artificial Intelligence in Public Health and Healthcare certificate is for those seeking to acquire fundamental knowledge, ethical decision-making, and applied skills in artificial intelligence applications in public health practice and healthcare settings.

About this Program

- **College:** Public Health and Health Professions (https://catalog.ufl.edu/UGRD/colleges-schools/UGPBH/)
- **Credits:** 9
- Student Learning Outcomes (SLOs) (https://public.tableau.com/app/profile/uf.oipr4918/viz/UFStudentLearningOutcomesCertificatesOnly/StudentLearningOutcomes/?publish=yes)
- *Certificates must comply with the Certificate Policy.*

Entry Requirements

- Junior or senior level standing
- STA 2023 or equivalent

Requirements

Code	Title	Credits
PHC 3793	Higher Thinking for Healthy Humans: AI in Healthcare and Public Health	3
PHC 3621	Ethics in Artificial Intelligence: Who's Protecting Our Health	3
PHC 4792	Data Visualization in the Health Sciences	3
Total Credits		**9**

Geographic AI and Big Data

Geographic Artificial Intelligence and Big Data Certificate

GeoAI, the integration of Geography and AI, provides novel approaches for addressing a variety of geospatial challenges in the real world. This certificate develops transferable skills in GeoAI to address issues affecting the environment and societies. GeoAI training is critical given projected growth ~16% in this industry by 2050.

Prerequisites

For this certificate program, the course prerequisites vary depending on what courses are selected. It is possible to take this certificate and satisfy the prerequisites from the courses listed, for example:

- GIS 2114 or GIS 2002, then
- GIS 3043, then
- GIS 4324 or GIS 4424C or GIS 4500, and then the capstone
- GIS 4123C

In this way ONLY the courses taken are required with no additional prerequisites and with GIS 3043 serving as the prereq for the higher-level courses.

Required Courses

Code	Title	Credits
GIS 2114	The World & Big Data	3
or GIS 2002	The Digital Earth	
GIScience techniques course (select one)		**3-4**
GIS 3043	Foundations of Geographic Information Systems	
GIS 4021C	Aerial Photo Interpretation	
GIS 4037	Digital Image Processing	
GIS 4102C	GIS Programming	
GIS 4115C	Spatial Surface Modeling and Geostatistics	
MET 3753	Pragmatic Python for Weather	
MET 4750	Spatial Analysis of Atmospheric Data using GIS	
GIScience applications course (select one)		**3**
GIS 3420C	GIS Models for Public Health	
GIS 4113	Introduction to Spatial Networks	
GIS 4324	GIS Analysis of Hazard Vulnerability	
GIS 4424C	Applications in GIS for Zoonoses and Disease Ecology	
GIS 4500	Population GIS	
MET 4410	Radar and Satellite Meteorology	
Capstone GeoAI course		**3**
GIS 4123C	GeoAI – Geographic Artificial Intelligence	
Total Credits		**12-13**