

# DATA ANALYTICS CERTIFICATE

The Data Analytics certificate provide students with the tools necessary to prepare data for analysis and use proper analytic tools. It also equips students to understand the issues associated with the ethical use of data (e.g., personal health information) and potential biases in the generation, analysis, and use of data.

## About this Program

- **College:** Liberal Arts and Sciences (<http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/>)
- **Credits:** 12 | Completed with minimum grades of B-
- Student Learning Outcomes (SLOs) (<https://public.tableau.com/app/profile/uf.oipr4918/viz/UFStudentLearningOutcomesCertificatesOnly/StudentLearningOutcomes/?publish=yes>)

*Certificates must comply with the Certificate Policy.*

## Department Information

The mission of the Department of Statistics is to provide its students with a fundamental understanding of statistical reasoning and methodology, to train them to apply this knowledge to the collection and analysis of data, and to prepare them for careers in a highly technological society in which science and decision-making are increasingly driven by a rapid expansion in the quantity and availability of data.

**Website** (<https://stat.ufl.edu/>)

## CONTACT

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Map (<http://campusmap.ufl.edu/#/index/0010>)

## Curriculum

- Actuarial Science Minor
- Combination Degrees
- Data Analytics Certificate
- Data Science
- Statistics
- Statistics Minor

The Data Analytics certificate provides students the tools to both organize and analyze data to answer important discipline-specific research questions and to understand both ethical issues and biases associated with any particular dataset. The fourth required course applies what was learned in the first three courses to a real-world application.

## Required Courses

Code	Title	Credits
STA 3100	Programming With Data in R	3
PHI 3681 or WST 3610	Ethics, Data, and Technology Gender, Race and Science	3
STA 3180	Statistical Modelling	3
Select one:		3
Approved course <sup>1</sup>		
ECO 4422	Econometrics 2	
EXP 4174C	Laboratory in Sensory Processes	
GIS 4124	Geocomputation using R Programming	
LIN 4702C	Methods in Psycholinguistics	
PHC 4792	Data Visualization in the Health Sciences	
POS 4931	Special Topics in Political Science (Election Data Science)	
PSB 4343C	Laboratory in Cognitive Neuroscience	
WST 4002	Data Feminisms	
<b>Total Credits</b>		<b>12</b>

<sup>1</sup> Approved by the certificate coordinator and involves applying the methods learned in STA 3180 ([http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/LAS\\_UCT23/file:///C:/search/%3fP=STA%203180/](http://catalog.ufl.edu/UGRD/colleges-schools/UGLAS/LAS_UCT23/file:///C:/search/%3fP=STA%203180/)) to the student's area of study. The course can be an upper-division department-

specific supervised research course. Such a course would be supervised by a faculty member in the department of the student's major and will involve conducting a data analysis project using the methods learned in STA 3180 and writing a report. The content of this course, given its breadth across students, will need to be pre-approved by the certificate coordinator and will require a short (up to one page) summary of how methods and topics covered in the first three courses will be applied to a real-world dataset.

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