USF UNIVERSITY OF SOUTH FLORIDA
COLLEGE OF ARTS & SCIENCES

# Major Fact Sheet

## Information Science

### Data Science & Analytics Concentration

## What will I be studying?

The Bachelor of Science in Information Science program is meant to prepare you for leadership careers in a wide array of environments and contexts related to the emerging knowledge economy. The program integrates critical skills in information technology with the solid theoretical and disciplinary foundations of Information Science.

Data Science and Analytics emphasizes deep knowledge discovery through data exploration, analysis, and inference.

## Career Ideas!

**Information Science Students focusing on Data Science and Analytics work in these types of careers:**

- Data Scientist
- Data Analyst
- Business Analyst
- Advanced Analytics Professional
- Database Administrator

**Please note this is not a complete list of careers you can go into with this major.

## Contact Us

**SOC 100 – Main Office**

**CPR 364 - Advising**

InfoStudies@usf.edu

https://www.usf.edu/arts-sciences/departments/information/index.aspx

## Research

USF is a high-impact, global research university. Faculty in the School of Information have active research programs that involve collaborations with other USF units, centers, and institutes, as well as colleagues nationally and internationally. USF's iSchool has a strong record of funded research projects and other forms of significant scholarly productivity that contributes to the information field and related disciplines. A few areas of focus include:

**DATA VISUALIZATION**

**DATA ANALYTICS**

**INTELLIGENCE AND SECURITY INFORMATICS**

**LIBRARY SCIENCE**

## Get Involved!

School of Information
BS in Information Science / Data Science and Analytics

# Example Four Year Plan

| Year 1 | | |
|---|---|---|
| Fall | Spring | Summer |
| ENC 1101 English Composition 1 | ENC 1102 English Composition 2 | XXX Civics Literacy |
| XXX SGEM Core Mathematics / MAC 1105 | STA 2023 Introductory Statistics | XXX XXXX 1000+ Gen Elective |
| XXX TGEC Creative Thinking | XXX TGEI Information Literacy | |
| XXX SGEH Core Humanities | XXX SGES Core Social Science | |
| | | |
| | | |
| Total Hours: 12 | Total Hours: 12 | Total Hours: 6 |
| **Year 2** | | |
| Fall | Spring | Summer |
| XXX SGEN Gen Ed Core Natural Science | MAC 1147 or MAD 2104 Discrete math Req. | XXX XXXX 3000+ Gen Elective |
| COP 2030 Programming Concepts | XXX XXXX 3000+ Gen Elective | XXX XXXX 3000+ Gen Elective |
| LIS 2780 Database Concepts | COP 2250 Object-Oriented Programming | |
| XXX TGED Human Diversity | XXX XXXX 1000+ Gen Elective | |
| | | |
| | | |
| Total Hours: 12 | Total Hours: 12 | Total Hours: 6 |
| **Year 3** | | |
| Fall | Spring | Summer |
| LIS 3261 Intro to Information Science | LIS 4414 Information Policy & Ethics / Ethical | XXX XXXX 3000+ Gen Elective |
| LIS 4800 Intro to Data Science | LIS 4317 Intro to Visual Analytics | |
| LIS 4273 Advanced Statistics and Analysis | LIS 4761 Intro to Data & Text Mining | |
| LIS 3353 IT Concepts for Info Professionals | LIS 4370 R Programming for Data Science | |
| XXX XXXX 1000+ Gen Elective | | |
| | | |
| Total Hours: 15 | Total Hours: 12 | Total Hours: 6 |
| **Year 4** | | |
| Fall | Spring | Total Credits to Graduation |
| ENC 3249 Communication for IT Professionals | LIS 4934 Senior Capstone for Information Pro | **Major Requirements:** 54 credit hours |
| LIS 4204 Information Behaviors | XXX 3XXX Data Concentration Elective | |
| LIS 4805 Predictive Analytics | XXX XXXX 3000+ Gen Elective | **General Education Requirements:** 36 credit hours |
| XXX XXXX 3000+ Gen Elective | XXX XXXX 3000+ Gen Elective | |
| XXX XXXX 3000+ Gen Elective | XXX XXXX 1000+ Gen Elective | **Other Degree Requirements:** 30 credit hours |
| | | |
| Total Hours: 15 | Total Hours: 15 | Total= 120 |

**May require completion of additional math pre-requisites (consider the MPT or CPT exams)