Applied Analytics

Use databases, statistics, and data visualization tools to query, analyze, forecast, and share metrics for business, research, healthcare, and more. Learn to work as a data analyst using state-of-the-art tools.

| units required for minor: | 18 |
| units required for specialization: | 10 |
| minor code: | APAN |
| department: | ITP |

Minor requirements

Core requirements (14 units):
- ITP-115 “Programming in Python” (2 units)
- ITP-249 “Introduction to Data Analytics” (4 units)
- ITP-449 “Applications of Machine Learning” (4 units) [prerequisites: ITP-115 and ITP-249]
- ITP-487 “Enterprise Data Analytics” (4 units) [prerequisite: ITP-249 or ITP-320]

Elective (4 units):
- DSO-424 “Business Forecasting” (4 units) [prerequisite: BUAD-310]
- DSO-428 “Essentials and Digital Frontiers of Big Data” (4 units)
- ITP-489 “In-Memory Data Modeling and Analytics” (4 units) [prerequisite: ITP-249 or ITP-320]

Specialization requirements

Core requirements (10 units):
- ITP-115 “Programming in Python” (2 units)
- ITP-249 “Introduction to Data Analytics” (4 units)
- ITP-449 “Applications of Machine Learning” (4 units) [prerequisites: ITP-115 and ITP-249]

Policies

- All minors at USC need **16 units** that only meet minor requirements and do not meet any other major, minor, or GE requirement.
- All courses completed for your minor or specialization must be completed for a **letter grade**.
- You must earn a **2.0 minimum** cumulative GPA in the courses completed for your minor or specialization.

Skills

- SQL
- NoSQL
- data visualization
- data reporting
- data mining
- business forecasting

Careers

- Data Analyst
- Market Researcher
- Operations Researcher
- Quality Engineer
- Statistical Modeler

Updated: 03/05/19
Make sure you consult with your major advisor about how best to incorporate the requirements for your minor with your major and general education requirements. You must complete a pre-advise ment course plan before scheduling an appointment with a minor advisor.