Florida Atlantic University - Data Science Analytics (Engineering) 2026-2027

Students must take 2 of the following courses, 1 must be from group A. The second course may be in group A or group B.

I. Communication

(Group A)

ENC 1101	College Writing I **(WAC)**

Students must complete ENC 1101 and ENC 1102 (or one of the approved substitutes for ENC 1102) with a grade of "C" or higher in each course.

(Group B)

ENC 1102	College Writing II **(WAC)** +
ENC 2135	Research and the Writing Process **(WAC)** + Ω
HIS 2050	Writing History **(WAC)** +
SPC 2608	Public Speaking (non-WAC) **non-substitute**

II. Humanities

(Group A)

ARH 2000	Art Appreciation
HUM 2020	Introduction to Humanities
LIT 2000	Introduction to Literature **(WAC)**
MUL 2010	Music Appreciation
PHI 2010 & D	Introduction to Philosophy **(WAC)** ++
THE 2000	Theatre Appreciation

(Group B)

ARC 2208	Culture & Architecture
ARH 2050	History of Art 1
ARH 2051	History of Art 2
DAN 2100	Appreciation of Dance
FIL 2000 & D	Film Appreciation
LIN 2607	Perspectives on Language
LIT 2010	Interpretation of Fiction **(WAC)** ++
LIT 2030	Interpretation of Poetry **(WAC)** ++
LIT 2040	Interpretation of Drama **(WAC)** ++
LIT 2070	Interp. of Creative Nonfiction **(WAC)** ++
LIT 2100	Introduction to World Literature
MUH 2121	World Music
SPT 2530	Hispanic Culture and Civilization
WOH 2012 & D	History of Civilization 1 **(WAC)** ++
WOH 2022	History of Civilization 2

III. Mathematics

(Group A)

MAC 1105	College Algebra
MAC 2311	Calculus with Analytic Geometry 1 (4 cr.)
MGF 1130	Mathematical Thinking in Context 1
STA 2023	Introductory Statistics **(Required)**

Or any mathematics course for which one of the above general education core course options in Mathematics is the direct prerequisite.

(Group B)

MAC 1147	Precalculus Algebra & Trigonometry (4 cr.)
MAC 2210	Intro Calculus w/App. (4 cr.) ***(Permit Only)***
MAC 2233	Methods of Calculus
MAC 2312	Calculus with Analytic Geometry 2 (4 cr.)
MGF 1131	Mathematical Thinking in Context 2
PHI 2102	Logic

Choose one MAC or MGF course in addition to STA 2023

IV. Natural Science

(Group A)

AST 2002	Introduction to Astronomy
BSC 1005 & L	Life Science (3 cr. w/Lab)
CHM 1020C	Contemporary Chemical Issues
ESC 2000	The Blue Planet (online)
EVR 1001	Environmental Science and Sustainability
GLY 2010C & D	Phys. Geol/Evolution of the Earth (4 cr. w/Lab)
OCE 2001	Introduction to Oceanography #

Or any course in the Natural Science for which one of the above general education core course options in Natural Science is the direct prerequisite. NOTE: at least one course must have a lab from Group A or B.

(Group B)

ANT 2511 & L	Intro to Biological Anthropology (4 cr. w/Lab)
ETG 2831	Nature: Inter. of Sci., Eng., & the Humanities
GLY 2100	History of Earth and Life
IDS 2382	Human Mission to Mars
MET 2010	Introduction to Weather and Climate
PSC 2121	Physical Science

V. Social Sciences

(Group A)

AMH 2010 & D	United States History to 1877 ◊
AMH 2020 & D	United States History Since 1877 ◊
ANT 2000 & D	Introduction to Anthropology **(WAC)**
ECO 2013	Macroeconomic Principles
POS 2041	Government of the United States ◊
PSY 1012	Introduction to Psychology

(Group B)

ANT 2100	Introduction to Archaeology Ω
CCJ 2002	Law, Crime & the Criminal Justice System
ECO 2023	Microeconomic Principles
EME 2620	Digital Literacy
EVR 1110	Human Dimensions of Environmental Change
EVR 2017	Environment and Society
GEA 2000	World Geography
INR 2002	Introduction to World Politics
LIN 2001	Introduction to Language (online)
PAD 2081	Risk & Resilience to Natural Hazards
POT 2000	Global Political Theory
SOW 1005	Perspectives of Social Services
SYO 2101	Families in the United States Ω
URP 2051	Designing the City

VI. Additional Enrichment

Choose 6 credits from Humanities, Social Science, Communication, or Natural Science subject areas.

(1) _____ (2) _____

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LEGEND

+ ENC 1101 is a prerequisite
++ Two Communication courses are required before taking this course.
§ Reserved for Wilkes Honors College & University Honors Program students only.
Ω Offered starting Fall 2026.
◊ Please visit FAU's website regarding the Civic Literacy Requirements.
(https://www.fau.edu/ugstudies/civic-literacy-requirement/)
‡ Co-requisite of MAC 1105 or a prerequisite of CHM 1025.
(R) – Recommended
(SR) – Strongly Recommended
The following courses are not offered at FAU but will fulfill this requirement if transferred from another school.
WAC - Writing Across the Curriculum course – minimum grade of "C" required. Students must take four WAC courses.

NOTE: Honors Seminars SHALL BE ACCEPTED AS MEETING THE WAC/GRW REQUIREMENT. See the University Advising Services Office for details.

Major Requirements Common Core

CAP 2751	Tools for Data Science **(Offered Fall only)**
MAP 2192	Math for Data Science **(Offered Fall/ Spring)**
CAP 2753	Experimental Design and Data Analysis **(Offered Spring only)**
CCJ 3071	Artificial Intelligence for Social Good
QMB 3302	Data Management and Analysis with Excel

Major Requirements Concentration Core

COP3035C	Introduction to Programming in Python
CEN 3062C	Introduction to Software Design
COP 3410C	Data Structures and Algorithm Analysis with Python

NOTE: See the catalog for specific requirements, course descriptions, and additional information. The requirements for some core curriculum & other courses may be satisfied by passing the appropriate AP or CLEP exam – check with your advisor and college. Students who come with less than 60 credit hours must complete 9 credit hours of summer coursework either at FAU or another State University System Institution.

CREDIT SUMMARY

36 cr.	**General Education**
18 cr.	**Data Science Common Core**
12 cr.	**Data Science and Engineering Concentration**
9 cr.	**Concentration Core Electives**
6 cr.	**Restricted Electives**
39 cr.	**General Electives (Upper-Division & Free Electives)**
120 credits	**TOTAL**

Advising Information

First-Year Students and Transfer Students with less than 30 earned credits
University Advising Services (UAS)
Phone: 561-297-3064
Email: advisingservices@fau.edu
Website: https://www.fau.edu/uas/

Current Students and Transfer Students with more than 30 earned credits
Center for Advising and Student Engagement (CASE)
Phone: 561-297-2780
Email: EECSadvising@fau.edu
Website: https://www.fau.edu/engineering/case/