

Florida Atlantic University - Data Science Analytics (Engineering) 2025-2026

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) (Required)**
Or a course with an ENC prefix for ENC 1101 is a direct prerequisite

(Group B)

ENC 1102 College Writing II **(WAC)** +
 HIS 2050 Writing History **(WAC)** +
 SPC 2608 Public Speaking (non-WAC)

II. Humanities

(Group A)

ARH 2000 Art Appreciation
 HUM 2020 Introduction to Humanities
 HUM 2020 Honors Introduction to Humanities §
 LIT 2000 Introduction to Literature
 LIT 2000 Honors Introduction to Literature §
 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
 FIL 2000 Honors 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 Inter 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)

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
 SYG 1000 Sociological Perspectives
 URP 2051 Designing the City

VI. Additional Enrichment

Choose 6 credits from Humanities, Social Science, or Natural Science

(1) _____ (2) _____

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.
- ♦ 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)

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

Division of Engineering Student Services (DESSA)
 Phone: 561-297-2780
 Email: EECSadvising@fau.edu
 Website: <https://www.fau.edu/engineering/dessa/undergraduate-advising/>