FLORIDA ATLANTIC UNIVERSITY – INTELLECTUAL FOUNDATION PROGRAM 2019 – 2020
All courses are three (3) credits unless otherwise indicated. Course selections should be made in consultation with an academic advisor.

DATA SCIENCE AND ANALYTICS
(2019-2020) MAJOR

FOUNDATIONS OF WRITTEN COMMUNICATION
(6 credit hours required – Writing Across the Curriculum - WAC)
Grade of “C” or higher is required in each course
___ ENC 1101 ...... College Writing I (REQUIRED)
___ ENC 1102 ...... College Writing II +
THE FOLLOWING COURSES BELOW MAY BE SUBSTITUTED FOR ENC 1102:

English Department
___ ENC 1930+ ...... University Honors Seminar in Writing (Permit Only)
___ ENC 1939+ ...... Special Topic: College Writing
___ ENC 2452+ ...... Honors Composition for Science

Anthropology Department
___ ANT 1471+..... Cultural Difference in a Globalized Society

History Department
___ HIS 2050+ ...... Writing History

Note: Students must take four Writing-Across-the-Curriculum (WAC) courses, two of which must be taken from Foundations of Written Communication.

FOUNDATIONS OF SCIENCE & THE NATURAL WORLD
(6 credit hours required - One of the courses must have a lab)
Student must take 2 of the following courses; 1 must be from group A. The second course may be from group A or group B.

Group A
Biology Department
___ BSC 1005 & L
Life Science (3 cr. incl. Lab)
Chemistry Department
___ CHM 1020C
Contemporary Chemical Issues
Geosciences Department
___ ESC 2000
The Blue Planet (online)
___ EVR 1001
Env. Science and Sustainability
Physics Department
___ AST 2002
Intro. to Astronomy (P/F)

Group B
Anthropology Department
___ ANT 2511 & L
Intro to Biological Anthropology (4 cr. incl. Lab)
Chemistry Department
___ CHM 2083
Chemistry in Modern Life (P/F)
Engineering Dean Department
___ ETG 2831
Nature: Inter. of Scl., Eng., & the Humanities
Geosciences Department
___ GRY 2010C
Physical Geol. (4 cr. incl. Lab)
___ GRY 2100
History of Earth and Life
___ MET 2010 & D
Weather and Climate
Physics Department
___ PSC 2121
Physical Science

FOUNDATIONS OF MATHEMATICS & QUANTITATIVE REASONING
(6 credit hours required – Grade of “C” or higher is required)
Student must take 2 of the following courses; 1 must be from group A. The second course may be from group A or group B.

PRETEST IS REQUIRED BEFORE TAKING YOUR FIRST MATH COURSE

Group A
___ MGF 1106 ...... Math for Liberal Arts 1
___ MGF 1107 ...... Math for Liberal Arts 2
___ MAC 1105 ...... College Algebra
___ STA 2023 ...... Introductory Statistics
___ MAC 2311 ...... Calculus with Analytic Geometry 1 (4 credits) (REQUIRED for Natural Sciences and Engineering Concentrations)

or any mathematics course for which one of the above courses is the direct prerequisite

Group B
___ MAC 1140 ...... Precalculus Algebra
___ MAC 1114 ...... Trigonometry
___ MAC 1147 ...... Precalculus Algebra & Trigonometry (5 credits)
___ MAC 2210 ...... Intro Calculus w/Applications (4 credits) (Permit Only)
___ MAC 2233 ...... Methods of Calculus
___ MAC 2312 ...... Calculus with Analytic Geometry 2 (4 credits)
___ MAD 2104 ...... Discrete Mathematics (3 credits) (REQUIRED for Natural Sciences and Engineering Concentrations)

Philosophy Department
___ PHI 2102 ...... Logic
(D) = Discussion, (L) = Lab
Courses indicating a (D) or (L) are linked with a lecture, a lab, and/or a discussion. If you select one of these courses, you must register for the lecture, lab, and/or discussion. You must attend the lecture, lab, and/or discussion.

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FOUNDATIONS OF SOCIETY & HUMAN BEHAVIOR
(6 credit hours required)
Student must take 2 of the following courses; 1 must be from group A.
The second course may be from group A or group B.

**Group A**

**History Department**
____ AMH 2020 & D ........ United States History Since 1877 (P/F)

**Anthropology Department**
____ ANT 2000 & D ........ Introduction to Anthropology

**Economics Department**
____ ECO 2013 ............... Macroeconomic Principles §

**Political Science Department**
____ POS 2041 ............... Government of the United States

**Psychology Department**
____ PSY 1012 ............... Introduction to Psychology

**Sociology Department**
____ SYG 1000 ............... Sociological Perspectives

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**Group B**

**History Department**
____ AMH 2010 & D ........ United States History to 1877 (P/F)

**Economics Department**
____ ECO 2023 ............... Microeconomic Principles §
____ ECP 2002 ............... Contemporary Economic Issues

**Exceptional Student Education Department**
____ EEX 2091 ............... Disability and Society

**Geosciences Department**
____ EVR 2017 ............... Environment and Society

**Languages, Linguistics, & Comparative Literature Department**
____ LIN 2001 ............... Introduction to Language (online course)

**Public Administration Department**
____ PAD 2258 ............... Changing Environment of Soc., Bus., & Gov’t

**Sociology Department**
____ SYG 2010 ............... Social Problems

**Urban & Regional Planning Department**
____ URP 2051 ............... Designing the City
# Foundations in Global Citizenship (6 credit hours required)
Student must choose two (2) courses from among the following:

**Anthropology Department**
- ANT 2410 .......... Culture and Society

**Curriculum, Culture & Education Department**
- EDF 2854 .......... Educated Citizen in Global Context

**Geosciences Department**
- GEA 2000 .......... World Geography

**Political Science Department**
- INR 2002 .......... Introduction to World Politics

**Languages, Linguistics, & Comparative Literature Department**
- LAS 2000 .......... Intro to Caribbean & Latin American Studies
- LIN 2607 .......... Global Perspectives on Language [online course]

**Sociology Department**
- SYP 2450 .......... Global Society

**Social Work Department**
- SOW 1005 .......... Global Perspectives of Social Services

**History Department**
- WOH 2012 & D .... History of Civilization 1 [WAC] ++
- WOH 2022 .......... History of Civilization 2

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**Foundations of Humanities (6 credit hours required)**
Student must take 2 of the following courses; 1 must be from group A. The second course may be from group A or group B.

**Group A**
- **Visual Art & Art History Department**
  - ARH 2000 .......... Art Appreciation (P/F)

**Group B**
- **Music Department**
  - MUL 2010 .......... Music Appreciation

**Philosophy Department**
- PHI 2010 & D ...... Introduction to Philosophy [WAC] ++

**Theatre & Dance Department**
- THE 2000 .......... Theatre Appreciation

**Architecture Department**
- ARC 2208 .......... Culture & Architecture

**School of Communication & Multimedia Studies**
- FIL 2000 & D .......... Film Appreciation

**Languages, Linguistics, & Comparative Literature Department**
- LIT 2100 .......... Introduction to World Literature

**English Department**
- LIT 2010 .......... Interpretation of Fiction [WAC] ++
- LIT 2030 .......... Interpretation of Poetry [WAC] ++
- LIT 2040 .......... Interpretation of Drama [WAC] ++
- LIT 2070 .......... Interpretation of Creative Nonfiction [WAC] ++

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**Legend**

- ENC 1101 is a prerequisite.
- Two Foundations of Written Communications classes are required before taking this course.
- Sophomore standing (30 credits earned) is a requirement to take this course.
- Nursing majors are required to take this course in their first semester.
- MAC 2311 is a prerequisite for this course. If a lab is needed, then take General Physics 1 Lab (PHY 2048 Lab).
- MAC 1105 and MAC 1114 are prerequisites for this course. If a lab is needed, then take General Physics 1 Lab (PHY 2048 Lab).
- Co-requisite of College Algebra (MAC 1105) or a prerequisite of Introductory Chemistry (CHM 1025). WAC - (WAC) Wring across the curriculum course.

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**Elective Credits**
The number of elective credits allowed varies by major. Please consult with an academic advisor to determine the number of elective credits required for your major. Certain majors do not allow any electives.
§ Wring Across the Curriculum (WAC)/Gordon Rule
Students must obtain grades of “C” or higher. 12 credits of wring (WAC) and 6 credits of mathematics are required.

Please note:
Students must take four (4) WAC courses. Two (2) courses are to be taken from Foundations of Written Communication. We strongly recommend the two additional WAC courses come from these courses: PHI 2010, WOH 2012, LIT 2010, LIT 2030, LIT 2040 and LIT 2070. See advisor for additional details.

(D) = Discussion, (L) = Lab
Courses indicating a (D) or (L) are linked with a lecture, a lab, and/or a discussion. If you select one of these courses, you must register for the lecture, lab, and/or discussion. You must attend the lecture, lab, and/or discussion.

P/F
Certain designated undergraduate courses may be taken for a letter grade of pass (P) or fail (F). Students must indicate the grade option preferred when registering; otherwise, a letter grade will be given. The maximum credit available to any student on the P/F option is one course per term with a maximum of 12 credits during a student’s entire course of study. This option is not available for courses in the student’s major, for students on probation, or for Engineering majors.

NOTE: Honors Seminars SHALL BE ACCEPTED AS MEETING THE GORDON RULE WRITING REQUIREMENT.
See the University Advising Services Office for details.

FREE ELECTIVES (36 credits, 12 or more courses)
Free electives are courses in any college, any department not previously taken. These credits are needed to meet the 120 credits required for graduation.

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<thead>
<tr>
<th>Credits</th>
<th>Course Category</th>
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<tbody>
<tr>
<td>36</td>
<td>Intellectual Foundations Program</td>
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<tr>
<td>36</td>
<td>Free Electives</td>
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<tr>
<td>48</td>
<td>Major Requirements</td>
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<td>120</td>
<td>TOTAL</td>
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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.

The Major in Data Science and Analytics:

(1) 45 credits minimum of upper division course work,
(2) students must get a “C” or higher in all major courses to receive major credit, and
(3) no major course can be taken pass/fail.