

Florida Atlantic University - Biology Major (BA/BS) and Medical Biology 2024-2025

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.

| Communication | |
|------------------|--|
| (Group A) | |
| ENC 1101 | College Writing I (Required) |
| (Group B) | |
| ENC 1102 | College Writing II + |
| ENC 1930 | University Honors Seminar in Writing + § |
| ENC 1939 | Special Topic: College Writing + |
| HIS 2050 | Writing History + |

| Humanities | |
|------------------|--|
| (Group A) | |
| ARH 2000 | Art Appreciation |
| HUM 2020 | Honors Introduction to Humanities § |
| 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 |
| DAN 2100 | Appreciation of Dance |
| FIL 2000 & D | Film Appreciation |
| FIL 2000 | Honors Film Appreciation § |
| JST 2452 | Global Jewish Communities |
| LAS 2000 | Intro to Caribbean & Latin American Studies |
| LIN 2607 | Global 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 |
| LIT 2931 | Special Topics in Lit (WAC) ++ |
| MUH 2121 | Music in Global Society |
| SPC 2608 | Public Speaking |
| WOH 2012 & D | History of Civilization 1 (WAC) ++ |
| WOH 2022 | History of Civilization 2 |

| Mathematics | |
|--|---|
| (Group A) | |
| MAC 1105 | College Algebra |
| MAC 2311 | Calculus with Analytical Geometry 1 (4 cr.) *** |
| <i>Or any mathematics course for which one of the above general education core course options in Mathematics is the direct prereq.</i> | |
| (Group B) | |
| MAC 1147 | Precalculus Algebra & Trigonometry (4 cr.) |
| MAC 2210 | Intro Calculus w/Applications (4 cr.) (Permit Only) |
| MAC 2233 | Methods of Calculus |
| MAC 2312 | Calculus with Analytic Geometry 2 (4 cr.) |
| MAP 2491 | Mathematics for Biological Sciences 1*** |
| PHI 2102 | Logic |

| Natural Science | |
|--|--|
| (Group A) | |
| BSC 1010 & L | Biological Principles (4 cr. w/Lab) |
| CHM 2045 & L | General Chemistry 1 (4 cr. w/Lab) ‡ |
| PHY 2048 & L | General Physics 1 (5 credits w/Lab) * |
| PHY 2053 & L | College Physics 1 (5 credits w/Lab) ** |
| <i>Or any course in the Nat Sci. for which one of the above general education core course options in Natural Science is the direct prerequisite.</i> | |
| ** NOTE: at least one science course must have a lab from Group A or B ** | |
| (Group B) | |
| BSC 1011 & L | Biodiversity (4 cr. w/Lab) |
| PSC 2121 | Physical Science (BA only) |

| 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 2410 | Culture and Society |
| CCJ 2002 | Law, Crime & the Criminal Justice System |
| DIG 2202 | Digital Culture |
| ECO 2023 | Microeconomic Principles |
| ECP 2002 | Contemporary Economic Issues |
| EDF 2854 | Educated Citizen in Global Context |
| EEX 2091 | Disability and Society |
| EME 2620 | Digital Literacy in a Globally Connected World |
| EVR 1110 | Climate Change: The Human Dimensions |
| EVR 2017 | Environment and Society |
| GEA 2000 | World Geography |
| INR 2002 | Introduction to World Politics |
| LIN 2001 | Introduction to Language (online) |
| MAR 2142 | Culture, Consumers, & the Global Mktplace |
| PAD 2081 | Risk Resilience and Rising Seas |
| PAD 2258 | Changing Env. of Soc., Bus., & Gov't |
| POT 2000 | Global Political Theory |
| SOW 1005 | Global Perspectives of Social Services |
| SYG 1000 | Sociological Perspectives |
| SYG 2010 | Social Problems |
| SYP 2450 | Global Society |
| URP 2051 | Designing the City |

| Additional Enrichment (6 credits) - Choose 6 credits from Humanities, Social Science, or Natural Science |
|--|
| (1) _____ |
| (2) _____ |

Please review page 2 for the legend and general info regarding the major.

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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. |
| | ◊ 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. |
| | * MAC 2311 is a prerequisite for this course. |
| | ** MAC 2233 is a prerequisite for this course. If a lab is needed, then take General Physics 1 lab (PHY 2048L). |
| | *** Medical Biology majors must select one of these math courses. |
| | # 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 |

MAJOR REQUIREMENTS

FOREIGN LANGUAGE (4 - 8 credits, 1 or more courses in the same language) - REQUIRED FOR MAJOR

Students with more than one year of a foreign language in high school should enroll in the second half of the beginners' foreign language class (ARA/FRE/GER/HBR/ITA/JPN/LAT/SPN 1121) or a higher-level course. Proficiency in a first-level course can be earned by successfully completing a second-level course. For questions related to this requirement, consult an academic advisor. CLEP exam credits meet this requirement: see the catalog.

NOTE: Native Speakers of a foreign language must consult the Languages, Linguistics, and Comparative Literature Department regarding this requirement.

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

NOTE: See catalog for specific requirements, course descriptions, and additional information. The requirements for some General Education (Gen Ed) courses & other courses may be satisfied by passing the appropriate AP or CLEP exam. Check with your advisor and college.

The Charles E. Schmidt College of Science Biology department has the following requirements (per the University catalog):

- (1) A student must earn a “C-” or better in all biology **AND** cognate courses taken as part of the requirements for an undergraduate degree in Biological Sciences. However, students must earn a “C” in chemistry courses.
- (2) Any course work in the major field transferred from another institution must be approved by the major dept.
- (3) The maximum amount of credit which may be earned through co-op is 10 credits; some departments allow some of these credits to substitute for major courses, check with department for specifics.
- (4) The Department of Biological Sciences offers an Honors Thesis Program that recognizes research accomplishments of talented undergraduates. Eligible students must have a minimum of 20 credits in biology and an overall GPA of 3.2. Students usually begin the program in their sophomore or junior year and conduct independent supervised research during their junior and senior years. A written paper and a seminar describing the results of their research are required in the senior year. Students who meet the eligibility criteria must apply and be accepted to the program. To enroll in the below Honors Program courses which can be used as biology elective courses. Interested students should contact the faculty member whose research interests are closest to those the student wishes to pursue and see <http://biology.fau.edu/academics/undergraduate/research.php> for more information. Denoted with (H).

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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.

MAJOR COURSES, COLLEGE REQUIREMENTS - B.A. DEGREE

Required Courses (Biology Core): 40 - 43 credits:

| | | | | |
|--------------|--------------------------------------|------|---|--|
| BSC 1019 | Introduction to Biology at FAU | 0 cr | ← | Select at least one of these required courses |
| SLS 1411 | First-Year Interest Group Experience | 1 cr | ← | |
| SLS 1501 | Honors Introduction to Academic Life | 2 cr | ← | |
| BSC 1011 & L | Biodiversity and Lab | 4 cr | | |
| BSC 1010 & L | Biological Principles and Lab | 4 cr | | |
| CHM 2045 & L | General Chemistry I and Lab | 4 cr | | |
| CHM 2046 & L | General Chemistry II and Lab | 4 cr | | |
| CHM 2210 & D | Organic Chemistry I | 3 cr | | |
| CHM 2211 | Organic Chemistry II | 3 cr | | |

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|--------------------|---|------|--|
| PSC 2121 | Physical Science | 3 cr | |
| OR | | | |
| PHY 2053 | College Physics | 4 cr | |
| MAC 2233 | Methods of Calculus | 3 cr | |
| 31 – 35 cr | General Education and Foreign Language | | |
| 45 – 47 cr | Biology Core | | |
| 12 cr | Biology Electives | | |
| 28 – 30 cr | Free Electives – (15 – 16 credits must be upper-division) | | |
| 120 CREDITS | TOTAL (45 credits at upper division minimum) | | |

MAJOR COURSES, COLLEGE REQUIREMENTS - B.S. DEGREE

Required Courses (Biology Core): 47 - 51 credits

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|--------------|--------------------------------------|------|---|--|
| BSC 1019 | Introduction to Biology at FAU | 0 cr | ← | Select at least one of these required courses |
| SLS 1411 | First-Year Interest Group Experience | 1 cr | ← | |
| SLS 1501 | Honors Introduction to Academic Life | 2 cr | ← | |
| BSC 1011 & L | Biodiversity and Lab & Disc | 4 cr | | |
| BSC 1010 & L | Biological Principles and Lab & Disc | 4 cr | | |
| CHM 2045 & L | General Chemistry I and Lab | 4 cr | | (All chemistry courses require a "C" or better) |
| CHM 2046 & L | General Chemistry II and Lab | 4 cr | | (All chemistry courses require a "C" or better) |
| CHM 2210 & D | Organic Chemistry I | 3 cr | | (All chemistry courses require a "C" or better) |
| CHM 2211 | Organic Chemistry II | 3 cr | | (All chemistry courses require a "C" or better) |

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| MAC 2233 | Methods of Calculus | 3 cr | |
| OR | | | |
| MAC 2311 | Calculus w/Analytic Geometry | 4 cr | |

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| PHY 2053 | College Physics I | 4 cr | Prerequisite of a "C" in one of these courses: MAC 1114/1147/2233/2311 |
| PHY 2048L | General Physics I Lab | 1 cr | |
| OR | | | |
| PHY 2048 | General Physics I | 4 cr | Prerequisite of a "C" in MAC 2311 per university catalog |
| PHY 2048L | General Physics I Lab | 1 cr | |

| | | | |
|-----------|------------------------|------|--|
| PHY 2054 | College Physics II | 4 cr | |
| PHY 2049L | General Physics II Lab | 1 cr | |
| OR | | | |
| PHY 2049 | General Physics II | 4 cr | |
| PHY 2049L | General Physics II Lab | 1 cr | |

| | | | |
|--------------------|--|--|--|
| 31 – 35 cr | General Education and Foreign Language | | |
| 52 – 53 cr | Biology Core | | |
| 18 cr | Biology Electives | | |
| 15 – 18 cr | Free Electives – (9 – 11 credits must be upper-division) | | |
| 120 CREDITS | TOTAL (45 credits at upper division minimum) | | |

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MAJOR COURSES, COLLEGE REQUIREMENTS - B.S. MEDICAL BIOLOGY DEGREE

Required Courses (Biology Core): 75 - 76 credits

| | | | |
|--------------|--------------------------------------|------|---|
| BSC 1011 & L | Biodiversity and Lab & Disc | 4 cr | |
| BSC 1010 & L | Biological Principles and Lab & Disc | 4 cr | |
| CHM 2045 & L | General Chemistry I and Lab | 4 cr | (All chemistry courses require a "C" or better) |
| CHM 2046 & L | General Chemistry II and Lab | 4 cr | (All chemistry courses require a "C" or better) |
| CHM 2210 & D | Organic Chemistry I | 3 cr | (All chemistry courses require a "C" or better) |
| CHM 2211 | Organic Chemistry II | 3 cr | (All chemistry courses require a "C" or better) |
| CHM 2211L | Organic Chemistry Lab | 2 cr | (All chemistry courses require a "C" or better) |

| | | |
|----------|---------------------------------------|------|
| MAC 2311 | Calculus w/Analytic Geometry | 4 cr |
| | OR | |
| MAP 2491 | Mathematics for Biological Sciences 1 | 3 cr |

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|-----------|-----------------------|------|--|
| PHY 2053 | College Physics I | 4 cr | Prerequisite of a "C" in one of these courses: MAC 1114/1147/2233/2311 |
| PHY 2048L | General Physics I Lab | 1 cr | |
| | OR | | |
| PHY 2048 | General Physics I | 4 cr | Prerequisite of a "C" in MAC 2311 per university catalog |
| PHY 2048L | General Physics I Lab | 1 cr | |

| | | |
|-----------|------------------------|------|
| PHY 2054 | College Physics II | 4 cr |
| PHY 2049L | General Physics II Lab | 1 cr |
| | OR | |
| PHY 2049 | General Physics II | 4 cr |
| PHY 2049L | General Physics II Lab | 1 cr |

| | |
|--------------------|---|
| 31 – 35 cr | General Education and Foreign Language |
| 63 – 64 cr | Medical Biology Core |
| 12 cr | Medical Biology Electives |
| 9 – 14 cr | Free Electives – (7-8 credits must be upper-division) |
| 120 CREDITS | TOTAL (45 credits at upper division minimum) |