

**MORGAN STATE UNIVERSITY DEPARTMENT OF PHYSICS
BACHELOR OF SCIENCE DEGREE IN PHYSICS
SUGGESTED CURRICULUM SEQUENCE**

FRESHMAN YEAR (FIRST SEMESTER)

MATH 241	Calculus I	4
XXXX-BP	Biological & Physical Sciences	4
ENGL 101-EC	Freshman Composition I	3
ORNS 106	Freshman Orientation	1
XXXX-HH	Health & Healthful Living	3
PHEC XXX	Physical Education	1

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SOPHOMORE YEAR (FIRST SEMESTER)

PHYS 206	University Physics II (w/ Lab)	5
MATH 243	Calculus III	4
CHEM 105-BP	Chemistry I (w/ Lab)	4
HIST 350-CI	African Diaspora	3

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JUNIOR YEAR (FIRST SEMESTER)

PHYS 301	Analytical Mechanics I	3
PHYS 303	Electricity & Magnetism I	3
PHYS 305	Mathematical Physics I	3
PHYS 306	Electronics for Experimental Physics	3
XXXX-SB	Social & Behavioral #2	3

15

SENIOR YEAR (FIRST SEMESTER)

PHYS 401	Optics	3
PHYS 409	Experimental Physics	3
PHYS XXX	Physics Elective #1	3
XXXX-AH	Arts & Humanities #1	3
XXXX	Complementary Studies #1	3

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FRESHMAN YEAR (SECOND SEMESTER)

PHYS 205-BP	University Physics I (w/ Lab)	5
MATH 242	Calculus II	4
ENGL 102-EC	Freshman Composition II	3
COSC 150-IM	Comp Sci & Data Analysis	3

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SOPHOMORE YEAR (SECOND SEMESTER)

PHYS 300	Modern Physics I	3
PHYS 308	Thermodynamics & Stat. Mech.	3
MATH 340	Differential Equations	3
CHEM 106	Chemistry II (w/ Lab)	4
XXXX-SB	Social & Behavioral Science #1	3

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JUNIOR YEAR (SECOND SEMESTER)

PHYS 302	Analytical Mechanics II	3
PHYS 304	Electricity & Magnetism II	3
PHYS 406	Mathematical Physics II	3
PHYS 412	Laboratory Microcomputers	3
PHIL 109-CT	Introduction to Logic	3

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SENIOR YEAR (SECOND SEMESTER)

PHYS 408	Quantum Mechanics I	3
XXXX-AH	Arts & Humanities #2	3
PHYS XXX	Physics Elective #2	3
XXXX	Complementary Studies #2	3

12

TOTAL CREDIT HOURS

120