

Degree Requirements - Bachelor of Science

Classical Physics 2016-2018 Catalog

Name _____

Semester Enrolled _____

Henderson Seminar: (1 Hour)

___ GEN 1031 Henderson Seminar (freshmen only)

Freshman English/Writing: (6 Hours)

___ ENG 1463 Freshman English A

___ ENG 1473 Freshman English B

Or

___ ENG1803 Honors Freshmen English

Communication: (3 Hours)

___ COM 2013 Oral Communication

Physical Well-Being 1 Hour

Choose one:

___ HPR 1011 Life Fitness Concepts

Fine Arts and Humanities: (6 Hours)

Choose one:

___ ENG 2013 World Literature I

___ ENG 2023 World Literature II

___ ENG 2683 Masters of Western Literature

___ ENG 2793 Masters of Western Literature - Honors

Choose one:

___ ART 2033 Humanities Art

___ MUS 2033 Humanities Music

___ THA 2033 Humanities Theatre

___ HUM 2093 Fine Arts: Honors

___ HUM 2603 Humanities: Studio Art

Social Science: (9 Hours)

Choose one:

___ HIS 1013 World Civilization to 1660

___ HIS 1023 World Civilization since 1660

___ HIS 1043 World Civilization since 1660-Honors

Choose one:

___ HIS 2053 U.S. United States to 1877

___ HIS 2063 U.S. United States since 1877

___ PSC 1013 American National Government

___ PSC 1023 State and Local Government

Choose one:

___ ANT 2013 Intro. To Cultural Anthropology

___ ECO 2013 Macroeconomics

___ ECO 2023 Microeconomics

___ GEO 1023 Intro to Geography

___ GEO 2163 World Geography

___ PSY 1013 General Psychology

___ PSY 1073 General Psychology – Honors

___ SOC 1013 Intro to Sociology

Natural Sciences (8 Hours)

___ BIO 1013/1021 Intro to Biology and Lab

___ CHM 1014 University Chemistry I

Nonwestern Culture: (3 Hours)

___ PHY 4293 Nonwestern Cosmology

Writing across the Curriculum: (3 Hours)

Choose one:

___ ENG 3313 University Writing

___ ENG 4453 Advanced Composition

___ ENG 3613 Technical Writing

Writing Intensive (WI) Requirement:

Must pass with a grade of “C” or better

Mathematics 8

___ MTH 1294 Calculus I (satisfies Math LAC)

___ MTH 2044 Calculus II (satisfies Core LAC)

Classical Physics

___ PHY 2234 University Physics I

___ PHY 2244 University Physics II

___ PHY3083 Mechanics

___ PHY3103 Modern Physics

___ PHY 3473 Computational Physics

___ PHY 4183 Electrodynamics

___ PHY 4273 Quantum Mechanics

___ PHY 4253 Advanced Physics Lab

___ JR/SR Physics or engineering elective

___ JR/SR Physics or engineering elective

___ JR/SR Physics or engineering elective

___ JR/SR Physics or engineering elective

Electives (as needed to meet 120 hour minimum)

Physics Electives

___ PHY 3053 (WI) General Astronomy

___ PHY 3173 Optics

___ PHY 3493 History of Physics

___ PHY 32333 Geophysics

___ PHY 3323 Applied Acoustics

___ PHY 4093 Thermal Physics

___ PHY 4343 Astrophysics and Cosmology

Computer science Electives

___ CSC 1104 Foundations of Computer Science I

___ CSC 1114 Foundations of Computer Science II

Mathematics and Statistics Electives

___ STA 2323 Statistical Methods

___ MTH 3104 Calculus III

___ MTH 4123 Differential Equations

Minor Courses (varies by department)

Minimum JR/SR Hours: 42

Mathematics Course Selection Recommendations

- If Math ACT ≥ 30 enroll in MTH 1295 Calculus I and MTH 1261 Intro to Mathematical Computing
- If $23 < \text{Math ACT} < 30$, enroll in MTH 1273 PreCalculus and MTH 1253 Plane Trigonometry
- If $19 \leq \text{Math ACT} \leq 23$, enroll in MTH 1243 College Algebra and MTH 1253 Plane Trigonometry

These are recommendations and can be adjusted on a case-by-case basis; however, caution is advised. If in doubt, take the time to talk to the Chair or another advisor.