I. Curriculum for Liberal Education (40 credit hours)
All courses must be on the University’s approved list for the Curriculum for Liberal Education.

Area 1 - Writing and Discourse (6 credit hours)
ENGL 1105 Freshman English

Area 2 - Ideas, Cultural Traditions and Values (6 credit hours)

Area 3 - Society and Human Behavior (6 credit hours)

Area 4 - Scientific Reasoning and Discovery (8 credit hours)
PHYS 2305 Foundations of Physics I

Area 5 - Quantitative and Symbolic Reasoning (8 credit hours)
MATH 1225 Calculus of a Single Variable

Area 6 - Creativity and Aesthetic Experience (3 credit hours: College of Science requirement)

Area 7 - Critical Issues in a Global Context (3 credit hours)
PHYS 2074 Highlights in Contemporary Physics

Note: The ViEWS requirement will be met with in-major classes.

II. Physics (29 credit hours)
PHYS 2325 Seminar for Physics Majors
PHYS 2326 Seminar for Physics Majors
PHYS 2504 Mathematical Methods in Physics
PHYS 3314 Intermediate Laboratory
PHYS 3324 Modern Physics
PHYS 3355 Intermediate Mechanics
PHYS 3405 Intermediate Electricity and Magnetism
PHYS 3704 Thermal Physics
PHYS 4315 Modern Experimental Physics

Two courses from the list below:
PHYS 3655 Introduction to Astrophysics
PHYS 3656 Introduction to Astrophysics
PHYS 4504 Introduction to Nuclear and Particle Physics
PHYS 4554 Introduction to Solid State Physics
PHYS 4564 Polymer Physics
PHYS 4574 Nanotechnology
PHYS 4614 Optics
PHYS 4654 Modern Cosmology
PHYS 4674 Introduction to General Relativity
PHYS 4714 Introduction to Biophysics
PHYS 4755 Intro to Computational Physics
PHYS 4774 Intro to Physics of Galaxies

III. Mathematics (9 credit hours)
MATH 2114 Introduction to Linear Algebra
or MATH 2114H Introduction to Linear Algebra

MATH 2204 Intro to Multivariable Calculus
or MATH 2204H Intro to Multivariable Calculus

MATH 2214 Introduction to Differential Equations
or MATH 2214H Introduction to Differential Equations
IV. Other Required Courses (11 credit hours)
- STL 2304 Legal Foundations of Intellectual Property 3
- STL 4304 Patent Law 2

V. Programming Course (3 credit hours)
One course from the list below:
- CS 1044 Introduction to Programming in C 3
- CS 1064 Introduction to Programming in Python 3
- CS 1114 Introduction to Software Design 3
- CS 1124 Introduction to Media Computation 3

VI. Free Electives (28 credit hours)

VII. Progress Toward Degree
A student will be certified as making satisfactory progress toward the B.A. degree in Physics by satisfying the university's academic eligibility requirements as well as the following requirements:
- Upon having attempted 60 credit hours, the student will have completed the CLE Area 1 requirement (in section I), the Mathematics requirement (section IV) as well as PHYS 2305-2306, PHYS 2325-2326, PHYS 2504, and PHYS 3324.
- Upon having attempted 45 credit hours, the student must have 2.0 overall and in-major GPAs.
- Upon having attempted 72 credit hours, the student will have completed the foreign language requirement by the close of the academic year (spring semester). [College of Science requirement]
- Upon having attempted 96 credit hours, the student will have completed all credits for the Curriculum for Liberal Education. [College of Science requirement]

VIII. Minimum hours and GPA required for graduation
A minimum of 120 credit hours must be completed for graduation. A minimum overall and in-major GPA of 2.0 is required for graduation. All physics courses attempted are used in the calculation of the in-major GPA.

IX. Prerequisites and/or Corequisites
There are prerequisites not shown on this checksheet. Please see the Course Catalog or your advisor.

X. Accepted Substitutions
- PHYS 3355: AOE 4134 (Astromechanics), or ESM 3124 (Dynamics II Analytical and 3-D Motion).
- PHYS 3405: ECE 3105 (Electromagnetic Fields).
- PHYS 3314: AOE 3054 (AOE Experimental Methods), or ECE 2204 (Electronics) & ECE 2274 (Electronic Networks Laboratory I), or ESM 3444 (Mechanics Laboratory).

XI. Foreign Language Requirement: Students who did not successfully complete at least two years of a single foreign, classical, or sign language during high school must successfully complete six semester hours of a single foreign, classical, or sign language at the college level. Courses taken to meet this requirement do not count toward the hours required for graduation. Please consult the Undergraduate Catalog for details.