

 **SIENAcollege** *Physics*-Siena College & HVCC Curriculum Guideline

HVCC Core requirements-A.S. Physical Sciences

Siena College Course Equivalency

CHEM 120 Freshman Chemistry I	CHEM 110 General Chemistry I
CHEM 121 Freshman Chemistry II	CHEM 120 General Chemistry II
ENGL 104 English Composition II, Writing about Literature	ENGL 101 Core English
MATH 180 Calculus I	MATH 110 Calculus I
MATH 190 Calculus II	MATH 120 Calculus II
PHYS 150 General Physics I	PHYS 130 Gen Physics I
PHYS 151 Physics General Physics II	PHYS 140 General Physics II

Restricted Electives-3 credits, see recommended choices below

HVCC Course

Siena College Course Equivalency

Fine Arts Elective-recommend to choose 1 from the following list: ARTS 100, 101, 104, 202, 273, MUSC 100, 110, 101, 105, 106, 110, THEA 100	Creative Arts Core
HIST 135 20 th Century History	HIST 101 Shaping of the Contemporary World, Core History requirement
PHIL 100 Intro to Philosophy	PHIL 101 Philosophy & the Human Being, Core requirement
PHIL 110 Comparative Religion I	Religious Core requirement
HIST 100, HIST 101, HIST 110, HIST 111, HIST 120 or 121, ENGL 200, ENGL 202, ENGL 203, ENGL 204, ENGL 205, ENGL 206, ENGL 210, ENGL 216, ENGL 218, ENGL 220, ENGL 222, ENGL 230, ENGL 232, ENGL 234, ENGL 235, ENGL 236, Any SUNY Gen Ed Social Science requirement	HIST 100, 101, 110, 111, or 135=History Core HIST 120 or 121=Franciscan Concern, First Year Seminar credit, or General elective credit ENGL courses=Franciscan Concern, First Year seminar or General elective Gen Ed Social Science=Core Social Science

Physics Track

HVCC Course

Siena College Course Equivalency

MATH 210 Calculus III	MATH 210 Calculus III
MATH 220 Differential Equations	No credit awarded, this is a 300 level class, must be taken at Siena
PHYS 250 General Physics III	PHYS 210 General Physics III
PHYS 252 Methods of Theoretical Physics	

Restricted Electives-3 credits-see choices above in the Restrictive elective section

Biology Science Elective-3-4 credits-see choices below

HVCC Course

Siena College Course Equivalency

BIOL 150/BIOL 190	BIOL 110 General Bio I
BIOL 275 Cell Biology	BIOL 220 Cell Biology
BIOL 206 Field Biology	ENVA 255 Plant Ecology
BIOL 210 Ecology	ENVA 250 Ecology

BIOL 215 Environmental Science	ENVA 100 Environmental Science
BIOL 281 Genetics	BIOL 260 Molecular Genetics

This outline should be used for those transferring from HVCC into the Siena College Physics major.

Points to keep in mind:

- Grades of C or better will transfer.
- Any 300-level course must be taken at Siena or another four-year accredited institution.
- Half of your major must be completed at Siena College.
- Students transferring with 24 or more credits are not required to complete Siena's First Year Seminar (6 credits), however, check with Siena admissions for acceptable substitutions.
- Students are required to complete four Franciscan Concern courses in the areas of diversity, heritage, nature, and social justice. These courses can be taken at HVCC and transfer into Siena. For a complete list of additional acceptable substitutions, see www.siena.edu/transfer under the HVCC Curriculum Guideline section, Franciscan Concern substitutions
- Substitutions for courses may be made by the Siena College Assistant Deans where they deem appropriate.

Siena College reserves the right to review the final evaluation of transfer credits. Please contact the Office of Admissions at 1-888-AT-SIENA with any questions or to make an appointment for a tentative credit evaluation and/or course advisement.