

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

HVCC Core requirements-A.S. Liberal Arts and Science-

Mathematics and Science

Siena College Course Equivalency

ENGL 101 English Composition I	WRTG 100, Introduction to Writing, Liberal Arts elective
ENGL 104 English Composition II, Writing about Literature	ENGL 101, Core English
MATH 160 Precalculus	MATH 050 Preparation for Calc, Arts elective
MATH 180 Calculus I	MATH 110 Calculus I
MATH 190 Calculus II	MATH 120 Calculus II
Additional Math choices	MATH 183=MATH 250 MATH 210=MATH 210 MATH 200=MATH 230 MATH 210 & 200 are recommended, Physics Major requirement

Science Core Sequence (any one sequence for 8 credit hours-Physics sequence recommended)

HVCC Course

Siena College Course Equivalency

BIOL 190 Biology I and BIOL 191 Biology II	BIOL 110 General Bio I and BIOL 111 General Bio II
<u>OR</u>	
CHEM 110 General Chemistry and CHEM 111 General Chemistry II or CHEM 120/CHEM 121	CHEM 110 General Chemistry I and CHEM 120 General Chemistry II
<u>OR</u>	
PHYS 140 General Physics I and PHYS 141 General Physics II or PHYS 150 Physics I and PHYS 151 Physics II	PHYS 110 Gen Physics IA/ PHYS 130 Gen Physics I or PHYS 120 Gen Physics IIA or PHYS 140 Gen Physics II

Mathematics/Science Core Restricted Elective (11 credits, choices below)

HVCC Course

Siena College Course Equivalency

MATH 135 Elementary Statistics	ADTV 110 Statistics
CHEM 205 Analytical Chemistry	CHEM 225 Analytical Chemistry I
CHEM 210 Organic Chemistry I	CHEM 210 Organic Chemistry I
BIOL 275 Cell Biology	BIOL 220 Cell Biology
BIOL 281 Genetics	BIOL 260 Genetics
BIOL 210 Ecology	ENVA 250 Ecology
BIOL 270 Anatomy & Physiology I	Arts/Science elective SCDV 210 Human Anat & Phys I
BIOL 271 Anatomy & Physiology II	Arts/Science elective SCDV 211 Human Anat & Phys II
BIOL 285 Molecular Laboratory Techniques	Biology Elective
CISS 110 Programming and Logic I	CSIS 120 Introduction to Programming (recommended, Physics Major requirement)

Humanities elective-3 credits, choose from course list 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
PHIL 100 Intro to Philosophy	PHIL 101 Philosophy & the Human Being, Core

	requirement
PHIL 110 Comparative Religion I	Religious Core requirement
History Electives- HIST 101, 110, 111, 120, 121, 135	HIST 100, 101, 110, 111, or 135=History Core HIST 120 or 121=Franciscan Concern, First Year Seminar credit, or General elective credit
Literature Electives-recommend to choose from ENGL 136, 204, 210, 212, 222, 230, 232, 234, 235, 236	Credit will be awarded for one of two first year seminar courses, liberal arts elective or Franciscan Concern credit

Social Science elective

Any PSYC, SOCL 100, SOCL 115, 120, 130, POLS 102	Credit will be awarded for Social Science core, one of two First Year seminar courses, liberal arts/science elective
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Free Elective-3 credits-see choices above in Humanities/Social Science Elective suggestions, or Science Core Restricted Elective suggestions

Restricted Electives-3 credits- see choices above in Humanities/Social Science Elective suggestions

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.