

Hartwick College - Office of Academic and Pre-Professional Advising
 Graduation Requirements Worksheet

Name: _____ Catalog Yr: _____ Department: Physics

Liberal Arts in Practice

	<i>Completed</i>	<i>Gr/Cr</i>
First Year Seminar & 'Wick 101 Course		
First Year Seminar _____	<input type="checkbox"/>	_____
'Wick 101 _____	<input type="checkbox"/>	_____

Writing Competency*- Depending on your Writing Level, take ENGL 101 (WL1), ENGL 110 (WL2), ENGL 111 (WL2b), or any WL3 course in any department, to achieve WL4.

_____	<input type="checkbox"/>	_____
_____	<input type="checkbox"/>	_____

3 Credits in Quantitative/Formal Reasoning (QFR)

QFR Designation _____	<input type="checkbox"/>	_____
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Foreign Language**- Spanish, German and French

Language Course I _____	<input type="checkbox"/>	_____
Language Course II (if needed) _____	<input type="checkbox"/>	_____

9 Credits in Humanities- Art, Art History, English, Music, Music Education, Philosophy, Religious Studies and Theatre

EL/ILS*** Humanities course _____	<input type="checkbox"/>	_____
_____	<input type="checkbox"/>	_____
3 or 4 cr Humanities course _____	<input type="checkbox"/>	_____

3 or 4 cr Humanities course _____

9 Credits in Physical & Life Sciences - Biology, Chemistry, Computer and Information Science, Geology, Mathematics, Nursing and Physics

1 Biology or Geology course _____	<input type="checkbox"/>	_____
1 Chemistry or Physics course _____	<input type="checkbox"/>	_____
3 or 4 cr Phys/Life Science _____	<input type="checkbox"/>	_____
Lab Component _____	<input type="checkbox"/>	_____

Note: Lab must be in a Biology, Geology, Chemistry or Physics Course

9 Credits in Social Sciences - Accounting, Finance, Anthropology, Business Admin, Economics, Education, History, Political Science, Psychology and Sociology

EL/ILS Social Science Course _____	<input type="checkbox"/>	_____
3 or 4 cr Social Science course _____	<input type="checkbox"/>	_____
3 or 4 cr Social Science course _____	<input type="checkbox"/>	_____

Note: Courses must be in at least two different departments

2 Credits in Physical Education

1 cr Physical Education course _____	<input type="checkbox"/>	_____
1 cr Physical Education course _____	<input type="checkbox"/>	_____

*Achieve Writing Level 4 either by attaining an A- or better in ENGL 110, or by taking a WL3 course and receiving the instructor's recommendation to be advanced to WL4.

** Language requirement can be fulfilled in one of four ways: two elementary courses, one elementary and an off-campus program, one elementary and culture course, or one intermediate or immersion course.

*** Courses with EL/ILS designation can be found in course offerings

Physics Major Requirements

	<i>Completed</i>	<i>Gr/Cr</i>
Ten Courses in Physics		
PHYS 160 Light & Relativity _____	<input type="checkbox"/>	_____
PHYS 201 General Physics I _____	<input type="checkbox"/>	_____
PHYS 202 General Physics II _____	<input type="checkbox"/>	_____
PHYS 265 Electronics _____	<input type="checkbox"/>	_____
PHYS 305 Atomic & Nuclear Physics _____	<input type="checkbox"/>	_____
PHYS 314 Thermodynamics & Statistical Physics or PHYS 318 Optics _____	<input type="checkbox"/>	_____
PHYS 361 Classical Mechanics I _____	<input type="checkbox"/>	_____
PHYS 401 Electricity & Magnetism I _____	<input type="checkbox"/>	_____
PHYS 410 Quantum Mechanics _____	<input type="checkbox"/>	_____
PHYS 490 Senior Project _____	<input type="checkbox"/>	_____

Two Core Course in Chemistry- Students may replace CHEM 107 and 108 with CHEM 109

_____	<input type="checkbox"/>	_____
_____	<input type="checkbox"/>	_____

Four Courses in Mathematics

MATH 121 Single Variable Calculus _____	<input type="checkbox"/>	_____
MATH 233 Multivariable Calculus _____	<input type="checkbox"/>	_____
MATH 235 Adv Single Variable Calculus _____	<input type="checkbox"/>	_____
MATH 311 Differential Equations _____	<input type="checkbox"/>	_____

Notes:

PHYS 163 General Astronomy is recommended for freshman interested in the observatory
 PHYS 362 and 402, and MATH 220, 341 and 411 are recommended for students interested in considering graduate work in physics

Contact Physics Department for more information

Key Terms:

Gr: Grade Received,
 Cr: Credit Received

Core Notes:

Students must complete 120 academic credits exclusive of Physical Education and achieve a 2.0 cumulative and major GPA to graduate. Liberal Arts Credits required: BA 90, BS 60. Liberal arts courses do not include Education, Computer/Information Science, Nursing or Business/Accounting.