

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

Name: \_\_\_\_\_ Catalog Yr: \_\_\_\_\_ Department: Mathematics

**Liberal Arts in Practice**

**First Year Seminar & 'Wick 101 Course**

	<i>Completed</i>	<i>Gr/Cr</i>
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"/>	_____
3 or 4 cr Humanities course _____	<input type="checkbox"/>	_____
3 or 4 cr Humanities course _____	<input type="checkbox"/>	_____

**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

**Mathematics Major Requirements** *Completed Gr/Cr*

**Five Foundation Courses:**

MATH 121 Single Variable Calculus (4 cr)	<input type="checkbox"/>	_____
MATH 233 Multivariable Calculus (3 cr)	<input type="checkbox"/>	_____
MATH 235 Advanced SV Calculus (3 cr)	<input type="checkbox"/>	_____
MATH 220 Linear Algebra (3 cr)	<input type="checkbox"/>	_____
MATH 320 Intro to Abstraction (3 cr)	<input type="checkbox"/>	_____

**Two Overview Courses:**

MATH 420 Abstract Algebra (3 cr)	<input type="checkbox"/>	_____
MATH 431 Intro to Real Analysis (3 cr)	<input type="checkbox"/>	_____

**One Course in Applied Mathematics – Either MATH 311, 375 or 381**

_____	<input type="checkbox"/>	_____
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**Two 300/400 Mathematics Electives**

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

**Two Advanced Directed Studies**

MATH 390 Junior Seminar (3 cr)	<input type="checkbox"/>	_____
MATH 491 Senior Capstone Seminar (3 cr)	<input type="checkbox"/>	_____

**One Course in Physics**

PHYS 201 General Physics I (4 cr)	<input type="checkbox"/>	_____
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You Ought To Know:

*Prerequisites*

MATH 233 and 235: Require MATH 121 SV Calculus  
 MATH 220: Requires at least C- in MATH 233 or 235  
 MATH 311: Requires MATH 233 and 235  
 MATH 320: Requires 233 and 235 and at least C in MATH 220  
 MATH 375 and 381: Require MATH 233, 235 and 220  
 MATH 390, 420 and 431: Requires at least a C in MATH 320  
 MATH 491: Requires MATH 390, 420 and 431

For more information, contact Mathematics department

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.