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**
First Year Seminar

‘Wick 101

**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.

**3 Credits in Quantitative/Formal Reasoning (QFR)**
QFR Designation

**Foreign Language** - Spanish, German and French
Language Course I

Language Course II (if needed)

**9 Credits in Humanities** - Art, Art History, English, Music, Music Education, Philosophy, Religious Studies and Theatre
EL/ILS*** Humanities course

3 or 4 cr Humanities course

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

1 Chemistry or Physics course

3 or 4 cr Phys/Life Science

Lab Component

*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

3 or 4 cr Social Science course

3 or 4 cr Social Science course

*Note: Courses must be in at least two different departments*

**2 Credits in Physical Education**
1 cr Physical Education course

1 cr Physical Education course

*Mathematics Major Requirements*

**Five Foundation Courses:**
MATH 121 Single Variable Calculus (4 cr)

MATH 233 Multivariable Calculus (3 cr)

MATH 235 Advanced SV Calculus (3 cr)

MATH 220 Linear Algebra (3 cr)

MATH 320 Intro to Abstraction (3 cr)

**Two Overview Courses:**
MATH 420 Abstract Algebra (3 cr)

MATH 431 Intro to Real Analysis (3 cr)

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

**Two 300/400 Mathematics Electives**

**Two Advanced Directed Studies**
MATH 390 Junior Seminar (3 cr)

MATH 491 Senior Capstone Seminar (3 cr)

**One Course in Physics**
PHYS 201 General Physics I (4 cr)

**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.

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*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