Sophomore Planning Informational Session

Department of

Mathematics and Statistics

Welcome!

A brief presentation will start soon, and then there will be time for all your questions …

Requirements to be accepted as a major or minor:

- Credit or placement for at least 4 of the following: (in progress is fine)
  - Calculus I (Math 15)
  - Calculus II (Math 25)
  - Linear Algebra (Math 27 or 28)
  - Multivariable Calculus (Math 33, 34, or 35)
  - Discrete Math (Math 39)

- Course: at least a C+ average in all courses taken in department;

    and at least one grade of B or above in courses taken in department

- Honors Major: at lease a B+ average in all courses taken in department
- Honors Minor: at least a B average in all courses taken in department

To do:
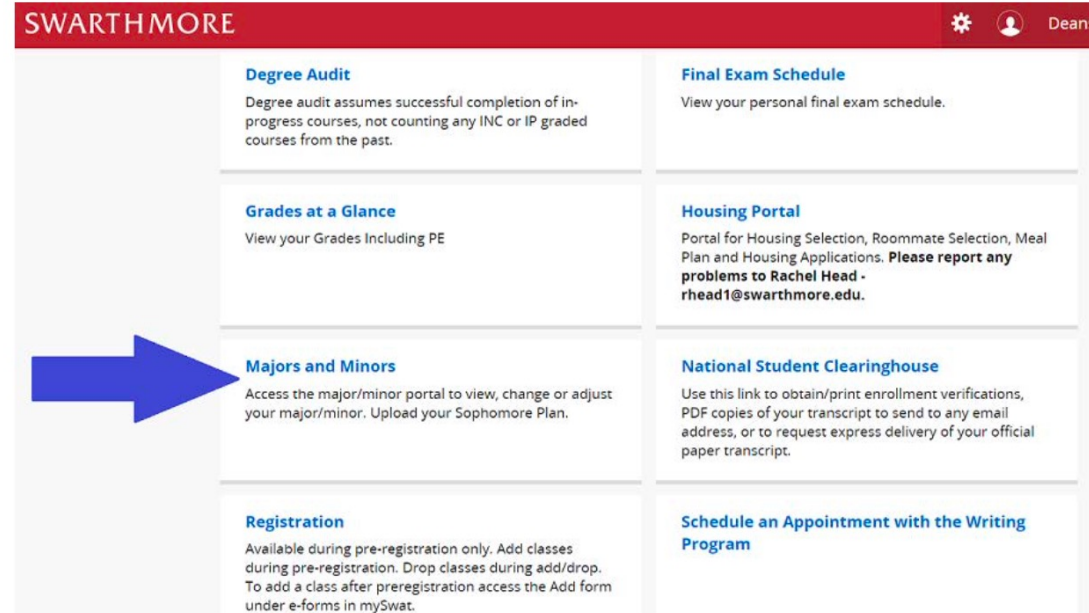
Click on "Majors and Minors"

in your mySwarthmore

Students complete their sophomore plan in the Student Information menu of mySwarthmore, in the Majors and Minors section.

Input the majors and minors in which you're interested

Need to do by Feb 13

Remember: at most 2 majors or 1 major and up to 2 minors.

Also: interested in talking about honors? Etc.

(click yes there – no commitment!)

It will ask if you have a request for a sophomore plan advisor. Feel free to ask! (perhaps a current or past professor)

Find advisor assigned to you

By end of Feb 17, you should find the advisor that was assigned to you. Arrange to meet them in the next week!

What you'll do when you meet your sophomore plan advisor:

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-Figure out how you will meet the requirements

Whatever you decide isn't written in stone, but we will use these to estimate the number of sections we need in future semesters.

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What are those requirements?

Requirements for All Course Majors:

- Take 10 credits in math/stat
- Have credit or placement for: Math 15, Math 25, Math 27/28, Math 33/34/35
- Math 63 (real analysis)
- Math 97 during both your last two semesters at Swarthmore

Then for various pathways:

No special emphasis:

  1) Math 67 (modern algebra)
  2) 3 additional courses numbered
       above 38

Special emphasis applied math:

  1) Math 66 (numerical methods …)
  2) Math 43/44 (diff'l eqns)
  3) One of Math 54/Math 56
    (modeling or pdes)
  4) one more class from
    Math 54,   Math 56,
    Stat 51 (probability),
    Math 103 (complex analysis), …

  5) Also need CS21

Special emphasis statistics:

  1) Stat 21
  2) Stat 51 (probability)
  3) Stat 61 (math statistics I)
  4) Stat 111 (math statistics II)

  5) Also need CS21

For full rules, see "Program for the next two years" on our website:

Academic Program

— Major/Minor
   Requirements

— Teaching Certification

— **Program for the Next
   Two Years**

— Department Data

Requirements for Course Minor

All Minors:
    Have credit or placement for:
        Math 15, Math 25, Math 27/28, Math 33/34/35
    At least 6 math/stat credits

For Stat Minor: For Math Minor:
  1) Stat 21   2 pathways –
  2) Stat 51   Regular: Math 63 or Math 67
  3) Stat 61   2 other courses numbered above 43
  4) CS 21

             Applied: Math 66
                     Math 43/44
                     one of Math 54/Math 56/Stat 51

            (Also need CS 21)
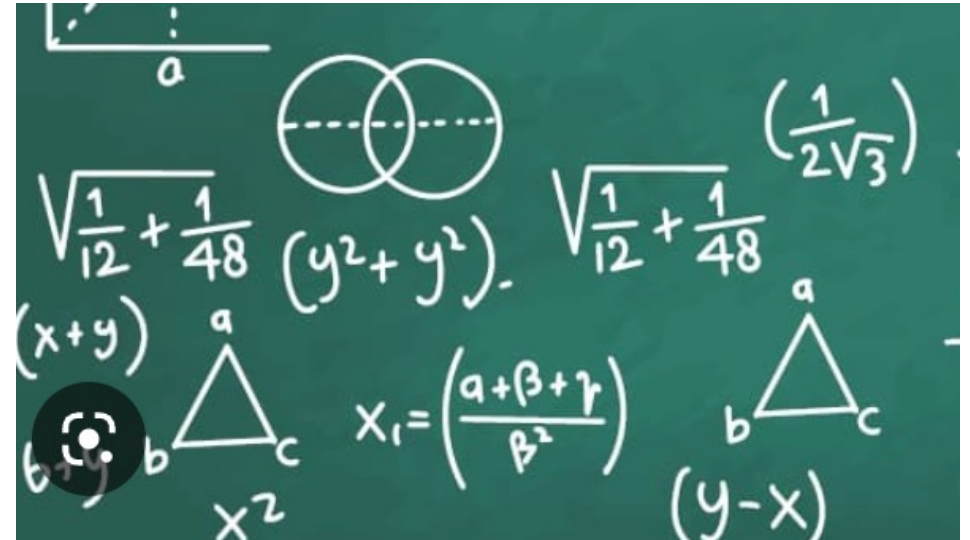
    Again: full descriptions are on our website

Requirements for Honors Majors:

- Take 10 credits in math/stat
- Have credit or placement for: Math 15, Math 25, Math 27/28, Math 33/34/35
- Three preparations of 2-credits each:
    - Analysis (real Math 63/101 or complex Math 63/103)
    - Algebra (Math 67/102)
    - One other from Statistics (Stat 61/111),
        - Geometry (Math 65/105),
        - Topology (Math 104)
- Have an honors minor

Requirements for Honors Minor:

- Take 6 credits in math/stat
- Have credit or placement for: Math 15, Math 25, Math 27/28, Math 33/34/35
- One of the above 2-credit preparations
- Have an honors major

Prof. Weinberg will host a meeting about honors Friday, 7 pm

Schedule of most upper-level credit-bearing courses offered during the next two years

From:
Last page of
*Program for
the next two
years*

Academic Year 2023-2024

Fall Semester			Spring Semester		
Math 58	Number Theory		Math 43	Basic Differential Equations	
Stat 61	Mathematical Statistics I		Math 44*	Differential Equations	
Math 63	Introduction to Real Analysis		Stat 51	Probability	
Math 66	Stochastic & Numerical Methods		Math 56	Modeling	
			Math 57/77	Topics in Algebra	
			Math 67	Introduction to Modern Algebra	
Math 102	Modern Algebra II		Math 101	Real Analysis II	
Math 103	Complex Analysis		Math 104	Topology	
			Stat 111	Mathematical Statistics II	

Academic Year 2024-2025

Fall Semester			Spring Semester		
Stat 61	Mathematical Statistics I		Math 43	Basic Differential Equations	
Math 63	Introduction to Real Analysis		Math 44*	Differential Equations	
Math 65	Introduction to Geometry		Stat 51	Probability	
Math 66	Stochastic & Numerical Methods		Math 53/73	Topics in Analysis	
Math 69	Combinatorics		Math 54	Partial Differential Equations	
			Math 67	Introduction to Modern Algebra	
Math 102	Modern Algebra II		Math 101	Real Analysis II	
			Math 105	Geometry II	
			Stat 111	Mathematical Statistics II	

Questions?