

Mathematics Spring 2021 New Student Orientation

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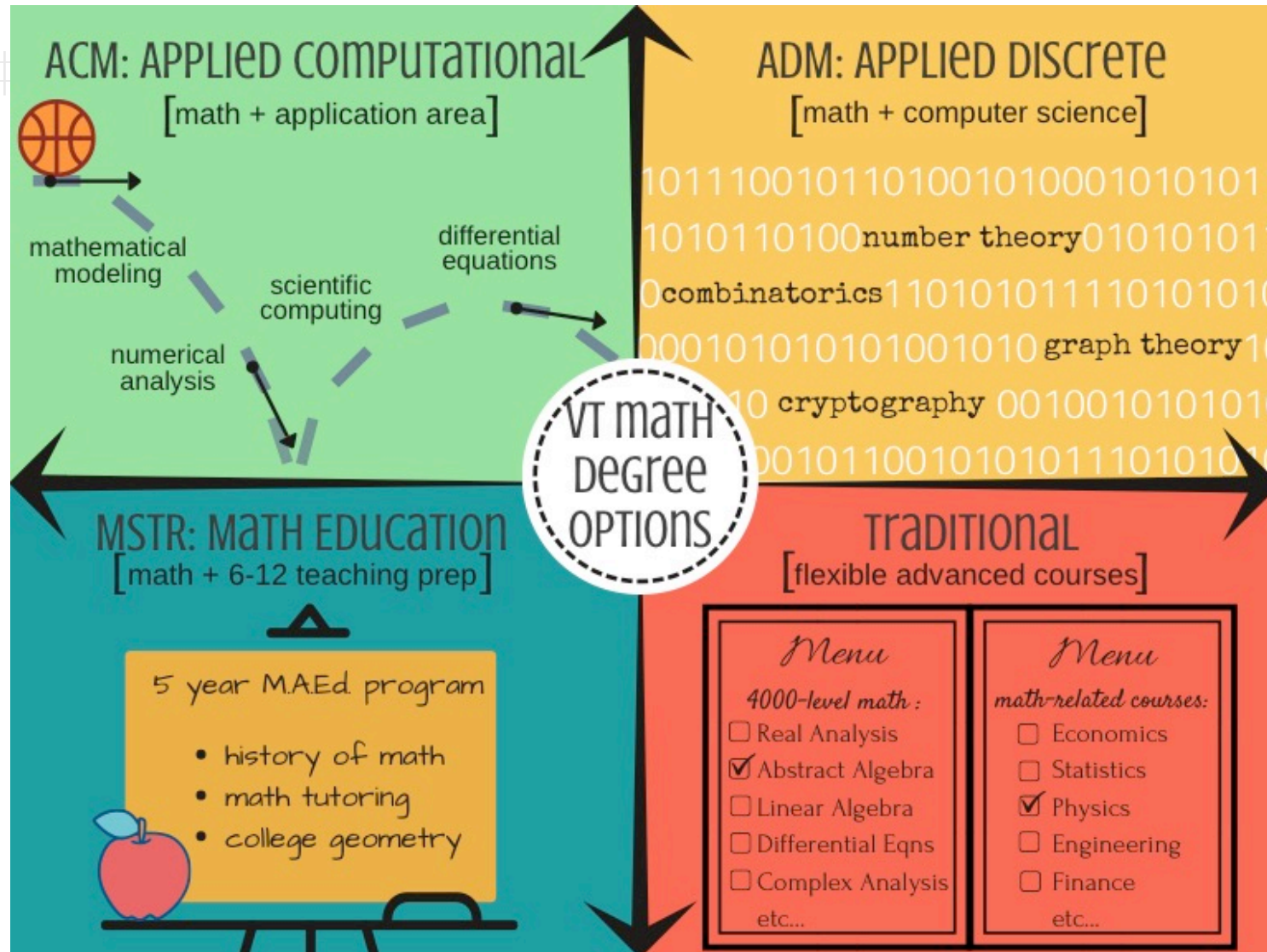
MATHEMATICS FACULTY, ACADEMIC ADVISORS



Quick Notes

- Check your VT email!
- Transfer credit (including AP/IB/CLEP/Cambridge/DE)
- Review all information on right-hand side of math.vt.edu/orientation
 - Computer requirements
 - Progress to degree rules
 - Handbooks, checksheets, 4-year course plans**
 - First-year Pathways courses**

Degree Options for B.S. Mathematics



Completing a Mathematics B.S.

General Education (Pathways)	45 credits
Math Major Requirements	approx. 60-75* credits
Free Electives	9-21 credits
Total	120 credits

- More free elective credits could be possible by satisfying multiple requirements with a single course.
- Some major requirements satisfy Pathways requirements, and those credits are counted twice above.

*Range depends on degree option.

First Year Experience (FYE)

MATH 1044 - Discovering Mathematics II

Spring CRN: 16822

Fall: 1 credit, P/F; Spring: 2 credits, A-F

Yearlong course:

- the math major
- career opportunities
- LaTeX
- geometry beyond Euclid
- mathematical modeling
- graph theory
- research... and much more!

Meet:

- other first-year math majors
- upper-class math majors
- mathematics department faculty members

Math Course Selection Calculus Sequence

IMPORTANT: Email us documentation of your AP (or other) scores as soon as possible!

- ***MATH 1014 (Precalculus, 3 credits)***
 - Math 1225 – “Not Ready”; No calculus transfer credit; Have not passed ALEKS placement assessment
- ***MATH 1225 (Calculus 1, 4 credits)***
 - Math 1225 – “Ready”; No calculus transfer credit
- ***MATH 1226 (Calculus 2, 4 credits)***
 - Transfer credit for 1225
- ***MATH 2204 (Multivariable Calculus, 3 credits)***
 - Transfer credit for 1225 and 1226

Programming Requirement

- All Degree Options:
 - Consider MATH 1454: Intro to Math Problem-Solving
 - Introduction to programming in MATLAB language
 - Focused on mathematical applications
 - Must at least be enrolled in MATH 1225
- ADM Option: CS 1114 (Typically after completing MATH 1225)

Pathways Concepts

(See checksheet for details)

Core Concepts

Discourse
9 credits

**Reasoning in the
Social Sciences**
6 credits

**Critique and Practice in
Design and the Arts**
6 credits

**Reasoning in the
Natural Sciences**
6 credits

**Quantitative and
Computational Thinking**
9 credits

**Critical Thinking
in the Humanities**
6 credits

**Critical Analysis of Identity and
Equity in the United States**

3 credits (may be double-counted
with another core concept)

Integrative Concepts

Ethical Reasoning
Throughout

Intercultural and Global Awareness
Throughout

Pathway 1: Discourse, 9 credits (1f: 6 credits + 1a: 3 credits)

1f-Foundational credits:

Fall Semester

Spring Semester

ENGL 1105 (3).....ENGL 1106 (3)

ENGL 1106 (3).....None if AS met**

**AS = Advanced Standing; placement by Registrar's Office; earn C- or better in 1st attempt at ENGL 1106 to then earn ENGL 1105 credit

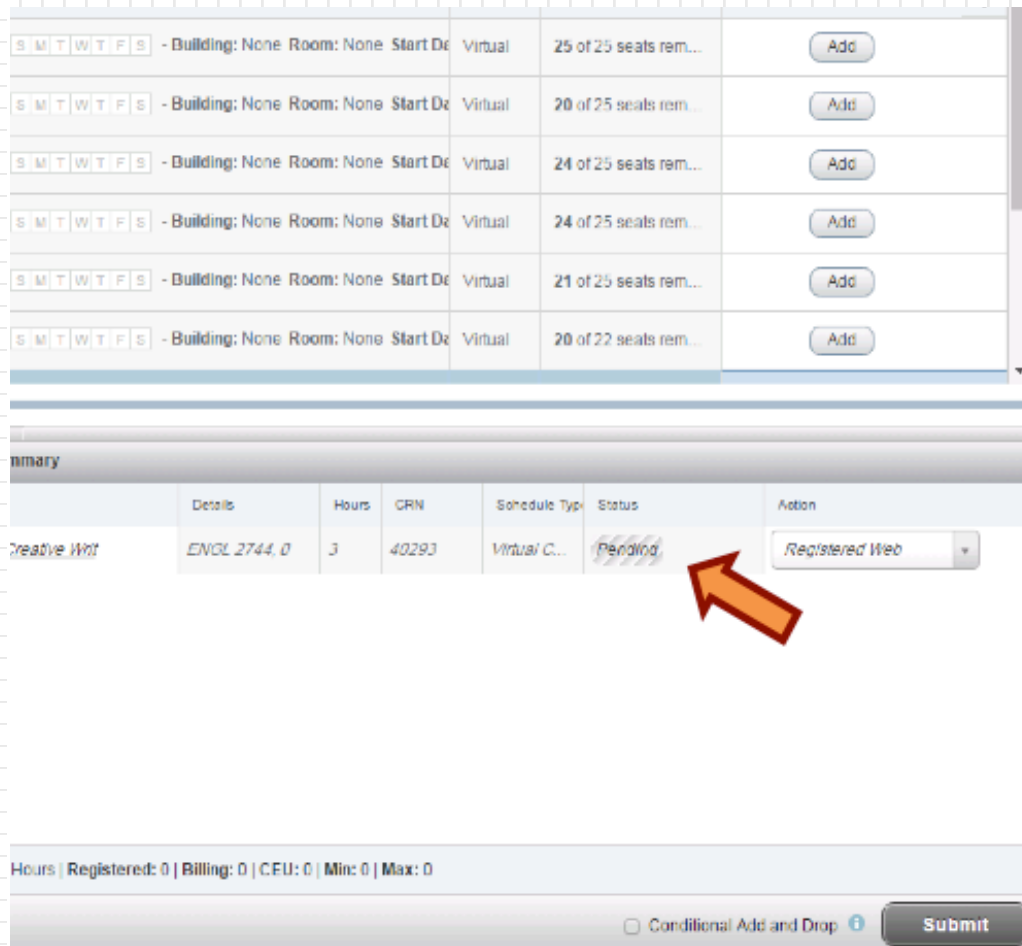
Pathway 4: Natural Science, 6-7 credits

- Math Ed Option: Must take one lab! (7 credits total)

Breakout Rooms

- Shortly you will begin to review and adjust your course schedule as needed
- We've created a personal breakout room for each of you, labeled with your last name
- If you have any questions you wish to ask in private, enter your breakout room
- Jessica or Eric will join you there to assist with your questions as soon as available

Adding Classes



The screenshot displays a web interface for adding classes. At the top, there is a list of virtual classes, each with a row of buttons (S, M, T, W, T, F, S), a building and room selection, a start date, a schedule type, and a seat availability indicator. Below this list is a summary table for a selected course, with an orange arrow pointing to the 'Pending' status.

	Details	Hours	CRN	Schedule Type	Status	Action
<i>Creative Writ</i>	<i>ENGL 2744, 0</i>	3	40293	Virtual C...	<i>Pending</i>	Registered Web

Hours | Registered: 0 | Billing: 0 | CEU: 0 | Min: 0 | Max: 0

Conditional Add and Drop ⓘ

***IMPORTANT:** The status of the course will be “Pending” and you will not be registered for the course until you click the “**Submit**” button.*

Once you have 14-17 credits on your fall course schedule

- Jessica or Eric must check over your schedule before you leave
- Complete the Advising Session Exit Form
 - linked on the right-hand side of <https://www.math.vt.edu/undergrad-math/advising/orientation-info-spring.html>

Let's get registered! 14-17 credits

- Go to <https://www.math.vt.edu/undergrad-math/advising/orientation-info-spring.html>
- Click on **Registration Tutorial** on right-hand side
- Follow the steps until you reach (and accept) the financial notice
- Review and adjust your schedule as necessary
- Ask us for any help or advice you need in choosing courses. Don't forget about:
 - 4-year course plans by degree option
 - First-year Pathways courses