



This plan is an example of how you can earn your degree in four years.

You should work with your advisor to customize the plan to fit your circumstances.

PROGRAM: Mathematics: Secondary Education (BA.MAT.SED)

Credits in Major:

### YEAR ONE

| FALL                                   | cr. | SPRING              | cr. | J.TERM & SUMMER | cr. |
|--|-----|---------------------|-----|-----------------|-----|
| Connections Seminar 1 (CNX1)           | 4   | MAT-1531 Calculus I | 4   |                 |     |
| ENG-1061 English Composition           | 3   | Gen. Ed. Elective   | 3   |                 |     |
| MAT-1360 Precalculus                   | 4   | Gen. Ed. Elective   | 3   |                 |     |
| EDU-1012 Educational Inquiries         | 3   | Gen. Ed. Elective   | 3   |                 |     |
| PSY-1050 Human Growth and Development* | 3   | Ed Elective         | 3   |                 |     |
| Total credits                          | 17  | Total credits       | 16  |                 |     |

NOTES: **EDU 1012, EDU 2031, and EDU 2032 require B- or better.**

\*PSY-1050 is one of three possible choices.

Total credits after Year One (**THINK 30**): **33**

By end of second semester: Complete Gateway 1 (Education)

### YEAR TWO

| FALL                         | cr. | SPRING  | cr. | J.TERM & SUMMER | cr. |
|------------------------------|-----|---|-----|-----------------|-----|
| Connections Seminar 2 (CNX2) | 3   | MAT-3533 Calculus III                         | 4   |                 |     |
| MAT-2532 Calculus II         | 4   | EDU-2031 Disciplinary Literacies Secondary Ed | 3   |                 |     |
| CIS-2031 C/C++ Programming   | 3   | EDU-2032 Special Ed Secondary Classroom       | 3   |                 |     |
| EDU-3012 Secondary Pedagogy  | 3   | Ed Elective                                   | 3   |                 |     |
| Gen. Ed. Elective            | 3   | Elective                                      | 3   |                 |     |
| Total credits                | 16  | Total credits                                 | 16  |                 |     |

NOTES: Should sign up for Connections Seminar 2 (CNX2) this year

Total credits after Year Two (**THINK 60**): **65**

#### General Education Program Requirements

- ENG 1061 English Composition
- 2 Writing Intensive courses
- ENG 1070 Effective Speaking
- 1 Speaking Intensive course
- 1 Digital & Computing Literacy course

No more than 1 course with same prefix for credit throughout the *Areas of Understanding*

- 3 cr. Mathematics
- 4 cr. Natural Science
- 6 cr. Social Science
- 6 cr. Arts & Aesthetics
- 6 cr. Humanistic Perspectives

## YEAR THREE

| FALL                          | cr. | SPRING                                | cr. | J.TERM & SUMMER | cr. |
|-------------------------------|-----|---------------------------------------|-----|-----------------|-----|
| MAT-3210 Linear Algebra       | 3   | MAT-3310 Differential Equations       | 3   |                 |     |
| MAT-3220 Probability          | 3   | MAT-3230 Math Statistics              | 3   |                 |     |
| MAT-3410 Intro Math Proofs    | 3   | MAT-4130 Abstract Algebra             | 3   |                 |     |
| MAT-3035 Teaching Mathematics | 3   | MAT-4140 Geometry                     | 3   |                 |     |
| Elective                      | 3   | Elective                              | 3   |                 |     |
|                               |     | <i>Submit Application to Graduate</i> |     |                 |     |
| Total credits                 | 15  | Total credits                         | 15  |                 |     |

NOTES: *Should sign up for Connections Seminar 3 (CNX3) this year*

Total credits after Year Three (THINK 90): **95**

*MAT-3035 is for Math Ed or MDS majors only; junior or senior status required. Runs Fall Odd Years only.*

*Prior to taking EDU 4031: Complete Gateway 2 (Education)*

## YEAR FOUR

| FALL                        | cr. | SPRING                          | cr. | J.TERM & SUMMER | cr. |
|-----------------------------|-----|---------------------------------|-----|-----------------|-----|
| MAT-3820 Math Tutorship     | 3   | EDU-4871 Dir. Student Teach. I  | 6   |                 |     |
| MAT-4110 Adv Calculus       | 3   | EDU-4872 Dir. Student Teach. II | 6   |                 |     |
| MAT-4720 Senior Seminar     | 3   | EDU-4720 Student Teach. Sem.    | 3   |                 |     |
| EDU-4031 Ed. Collaborations | 5   |                                 |     |                 |     |
| Total credits               | 14  | Total credits                   | 15  |                 |     |

NOTES: *Need at least 120 cr. to graduate*

Total credits after Year Four (THINK 120): **124**

To be recommended for licensure to teach in Vermont, students must complete Gateway 3 (Education), which includes passing Praxis I and II, maintaining a cumulative GPA of at least 3.0, and receiving a B or better or "PASS" in EDU 4871, 4872, and 4720. Students must also submit Licensure Portfolio and appropriate application materials for review by the Castleton Licensure Committee.

### We strongly encourage you to:

- **Get involved on campus:** Join (or start) a club. Serve as an SOS. Apply to be a CA. Be a tutor. Play intramurals. Participate in SGA, a singing group, WIUV, the Spartan newspaper, a theater production, Green Campus Initiative, the Athletic Band, etc.
- **Expand your academic program:** Complete a minor. Earn the Certificate in Civic Engagement or the Certificate in Global Studies. Take a foreign language. Study abroad. Visit the Academic Support Center. Meet with your academic advisor every semester.
- **Explore career options:** Visit Career Services early and often. Get an internship. Attend the Career & Grad School Fair. Go to the Part-Time Job Fair. Do research with a professor. Join your field's professional organization. Investigate graduate school options.
- **Serve the community:** Take a Civic Engagement course. Join the Mentoring Program. Participate in Alternative Spring Break. Volunteer off-campus for a community organization (e.g. Habitat for Humanity, Meals on Wheels, the Boys & Girls Club, etc.).