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|  | **School of Theoretical and Applied Science** |

**Mathematics, Teacher Education Concentration**

Recommended Graduation Plan (Fall 2024)

The recommended graduation plan is designed to provide a blueprint for students to complete their degrees on time. These plans are the recommended sequences of courses. Students must meet with their Academic Advisor to develop a more individualized plan to complete their degree and with their Teacher Education Advisor to ensure appropriate sequencing and timing of courses to meet State of New Jersey teacher certification requirements.

**NOTE:** This recommended Graduation Plan is applicable to students admitted into the major during the 2024-2025 academic year.

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| **CRWT Placement** |  | **Math Placement** |
| CRWT 101 to CRWT 102 |  | MATH 021/022 to MATH 024 to MATH 110-121 |
| CRWT 101S to CRWT 102S |  |  |

**NOTE**: CRWT and MATH courses are determined by placement testing and should be taken following the sequence above.

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| **First Year\*\*** | | | | | |
| **Fall Semester** | **HRS** | ✓ | **Spring Semester** | **HRS** | ✓ |
| Gen Ed: INTD 101 - First Year Seminar | 4 |  | CMPS 130 - Scientific Problem Solving with Python OR CMPS 147 - Computer Science I | 4 |  |
| Gen Ed: CRWT 102 - Critical Reading and Writing II | 4 |  | General Education Requirement | 4 |  |
| Gen Ed: Quantitative Reasoning - MATH 121 - Calculus I \* | 4 |  | MATH 237 - Discrete Structures **WI** OR  MATH 205 - Mathematical Structures **WI** | 4 |  |
| General Education Requirement | 4 |  | MATH 122 - Calculus II | 4 |  |
|  |  |  | TAS Pathways Module 1: (PATH-TS1)  Career Assessment/ Advising | **Degree Rqmt.** |  |
| **Total:** | 16 |  | **Total:** | 16 |  |

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| **Summer Session\*\*\*** | **HRS** | ✓ |
| Certification Requirement: BIOL 101- Intro to Biology (recommended for Physiology/Hygiene requirement) | 4 |  |
| General Education Requirement | 4 |  |

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| **Second Year\*\*\*\*** | | | | | |
| **Fall Semester** | **HRS** | ✓ | **Spring Semester** | **HRS** | ✓ |
| EDUC 211 - Student Literacy CorpsCE1 (Urban) | 4 |  | MATH Elective numbered above 237  (not MATH 370 – Applied Statistics) | 4 |  |
| MATH 225 - Multivariable Calculus | 4 |  | MATH 253 - Probability | 4 |  |
| MATH 262 - Linear Algebra **WI** | 4 |  | MATH 282 - Number Theory | 4 |  |
| PHYS 116 - Physics I w/ Calculus Lecture and PHYS 116L - Introductory Physics I Lab | 4+1 |  | General Education Requirement | 4 |  |
| TAS Pathways Module 2: (PATH-TS2)  Resume/CV Writing | **Degree Rqmt.** |  | TAS Pathways Module 3: (PATH-TS3)  Interview Preparation | **Degree Rqmt.** |  |
| **Total:** | 17 |  | **Total:** | 16 |  |
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| **Summer Session (both online)** | **HRS** | ✓ |
| Gen Ed: Distribution & Certification Requirement: EDUC 221 - Social Context of Education (1st session) | 4 |  |
| Certification Requirement: EDUC 241 - Instructional Technology (2nd session) | 4 |  |

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| **Third Year** | | | | | |
| **Fall Semester** | **HRS** | ✓ | **Spring Semester** | **HRS** | ✓ |
| Certification Requirement:  EDUC 222 - Teaching: Principles and PracticesCE2 | 4 |  | Certification Requirement:  EDUC 360 - Introduction to Special EducationCE3 EDUC 301 - Meeting the Needs of All Learners **(co-req.)** | 4 |  |
| PSYC 101 - Introduction to Psychology | 4 |  | Certification Requirement:  PSYC 215 - Learning, Cognition, & Teaching | 4 |  |
| MATH 432 - Abstract Algebra **WI** | 4 |  | MATH 416 - Introduction to Analysis | 4 |  |
| MATH 353 - Statistics | 4 |  | MATH 321 - Geometry | 4 |  |
| **Total:** | 16 |  | **Total:** | 16 |  |

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| **Summer Session** | **HRS** | ✓ |
| General Education Requirement | 4 |  |

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| **Fourth Year** | | | | | |
| **Fall Semester: EDUC courses are Co-Requisites.** | **HRS** | ✓ | **Spring Semester** | **HRS** | ✓ |
| **Certification Requirement:**  EDUC 310 - Methods in Content Areas: Math/ScienceCP1\*\*\*\*\* | 4 |  | **Certification Requirement:**  EDUC 495 - Clinical Practice Capstone: ContentCP3\*\*\*\*\*\* | 12 |  |
| **Certification Requirement:**  EDUC 350 - Reading and Writing in the Content AreasCP2\*\*\*\*\* | 4 |  |  |  |  |
| MATH 441 - History of Math **WI** | 4 |  |  |  |  |
| **Total:** | 12 |  | **Total:** | 12 |  |
|  |  |  |  |  |  |

**Total Credits Required for Graduation:** 128

**Total Credits in This Plan:** 145

**Major GPA Required for Graduation:** 2.0

**CUM GPA Required for Certification AT TIME OF GRADUATION/DEGREE COMPLETION:** 3.0

**WI: Writing Intensive - 3 courses required in the major**

**General Education courses** can be done in any order with the exception of INTD 101, CRWT and MATH. Those three general education courses will need to be done first. First Year Seminar is taken in the first semester. Failure to complete CRWT and MATH will result in a hold when the student hits 64 credits. The following general education courses can be done in any order. For more info on these courses, please visit the [General Education program requirements website in the College Catalog](https://www.ramapo.edu/catalog-2023-2024/general-education/):

* + Social Science Inquiry (SOSC 110) *[+W]*
  + Scientific Reasoning
  + Historical Perspectives *[+W]*
  + Studies in the Arts & Humanities (*CRWT 102 is a prerequisite to this course*) *[+W]*
  + Global Awareness *[+W]*
  + Distribution Category (Systems, Sustainability, & Society **OR** Culture & Creativity **OR** Values and Ethics) **(Must be outside of TAS)**
  + Distribution Category

+W: Students transferring in with 48 or more credits are waived from these general education requirements.

\* See the course catalog for prerequisites for Calculus I. One of the ways to enter Calculus I is to place into it via the Accuplacer Calculus placement test called Accuplacer Advanced Algebra and Functions Test (AAF Test) at the RCNJ Testing Center. The Testing Center is open all year round. If the placement test results for a given student indicate that developmental courses are required (for instance, Precalculus, or Elementary Algebra Topics followed by Precalculus), such developmental courses may be taken as early as during the summer session(s) preceding the student’s freshman year [Summer Session I (late May – late June) or Summer Session II (mid July – mid August)]. See the RCNJ Testing Center website for more details on the Calculus placement test.

\*\*Ideally, native Ramapo students should be fully admitted into the TE program **by the end of their first year at Ramapo.**

**Transfer students should be directed to the TE Program office immediately upon their arrival on campus**, and earlier if possible.

All students should be directed early to the TE program for admissions requirements.

Students will complete Clinical Experience (CE) and Clinical Practice (CP) courses during the time in the Teacher Education Program. It is recommended that students complete EDUC 211 and EDUC 222, both of which require CE, in different semesters.

\*\*\*Any of the courses listed in summer sessions on this plan may be taken in any regular academic semester (fall and/or spring), even as an overload, to maximize tuition dollars. Individual plans for/time to graduation should be developed with your major and TE advisors. It might be possible to take all courses that are listed during the summer sessions above in an online format.

\*\*\*\*Students **must be fully admitted** into TE program before registering for EDUC 222, which on this plan is presented **in the absolute last semester** in which a student could take it **and expect to complete both the major and certification requirements within 4 years**. Please see faculty or staff in the Teacher Education Program for admission requirements and appropriate timing/planning. This course is a prerequisite to EDUC 360, which is a prerequisite to EDUC 310 and 350, which are co-requisites.

**\*\*\*\*\*Only offered fall semester. EDUC 310 and EDUC 350 are co-requisites and must be taken the semester prior to Clinical Practice Capstone to meet state mandates for a full year of Clinical Practice.**

**\*\*\*\*\*\*Only offered spring semester.** No other course may be taken with this course.

Clinical Experience Hours Required:

CE1EDUC 211 – 10 hours

CE2EDUC 222 – 20 hours

CE3EDUC 360 – 60 hours

Clinical Practice Hours Required:

CP1EDUC 310—170 hours

CP2EDUC 350—10 hours

CP3EDUC 4XX—525 hours

**PLEASE NOTE:**

**Transportation to and from off-campus clinical experience and clinical practice placements (in K-12 schools) is the responsibility of individual students. Please plan accordingly.** **If transportation is or may be an issue, please visit the TE program offices BEFORE you register for a course which requires a K-12/off campus school placement.**