

Mathematics Major, Content Area Teacher Education Concentration
 Recommended Four-Year Plan (Fall 2018)

The recommended four-year plan is designed to provide a blueprint for students to complete their degrees within four years. These plans are the recommended sequences of courses. Students must meet with their Major 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. This plan assumes that no developmental courses are required. If developmental courses are needed, students may have additional requirements to fulfill which are not listed in the plan.

NOTE: This recommended Four-Year Plan is applicable to students admitted into the major during the 2018-2019 academic year.

First Year**					
Fall Semester 2018	HRS	□	Spring Semester 2019	HRS	□
Gen Ed: INTD 101 FYS - First Year Seminar	4		Gen Ed: Historical Perspectives	4	
Gen Ed: CRWT 102 Critical Reading and Writing II	4		Gen Ed: Global Awareness	4	
MATH 121 Calculus I *	4		MATH 122 Calculus II	4	
CMPS 147 Computer Science I	4		MATH 237 Discrete Structures WI OR MATH 205 Mathematical Structures WI	4	
			TAS Pathways Module 1: (SCIN-001) Career Assessment/ Advising		
Total:	16		Total:	16	

Second Summer Session***	HRS	□
PSYC 101 Introduction to Psychology	4	
Gen Ed: Studies in Arts and Humanities	4	

Second Year****					
Fall Semester 2019	HRS	□	Spring Semester 2020	HRS	□
EDUC 211 Student Literacy Corps ^{CE1} (Urban)	4		Gen Ed: Distribution	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 118L Introductory Physics I Lab	4+1		MATH Elective numbered above 237	4	
TAS Pathways Module 2: (SCIN-002) Resume/ CV Writing			TAS Pathways Module 3: (SCIN-0013) Interview Preparation		
Total:	17		Total:	16	

Third Summer Session (both online)	HRS	□
Gen Ed: Distribution & Certification Requirement: EDUC 221 Social Context of Education (1 st session)	4	
Certification Requirement: EDUC 241 Instructional Technology (2 nd session)	4	

Third Year					
Fall Semester 2020	HRS	□	Spring Semester 2021	HRS	□
Certification Requirement: EDUC 222 Teaching: Principles and Practices ^{CE2}	4		Certification Requirement: EDUC 360 - Introduction to Special Education ^{CE3}	4	

Certification Requirement: PSYC 215 Learning, Cognition, & Teaching	4		Certification Requirement: Physiology/Hygiene Course (BIOL 101 recommended)	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	

Fourth Summer Session	HRS	□
Gen Ed: Social Science Inquiry	4	

Fourth Year					
Fall Semester 2021: EDUC courses are Co-Requisites.	HRS	□	Spring Semester 2022	HRS	□
Certification Requirement: EDUC 310 Methods in Content Areas: Math/Science^{CP1*****}	4		Certification Requirement: EDUC 4XX Clinical Practice Capstone: Content^{CP3*****}	12	
Certification Requirement: EDUC 350 Reading and Writing in the Content Areas^{CP2*****}	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

* See the course catalog for prerequisites for Calculus I. One of the ways to enter Calculus I is to place into it via the CLM placement 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 CLM 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.

****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.