

AGRICULTURAL SCIENCE EDUCATION (K-12)

Five-Year (4+1) Teacher Education Program

Revised February 2019 -- For students earning a bachelor's degree in May, 2019 or later

*Students who complete this program successfully will receive an Ed.M. in Science Education from the GSE as well as a recommendation to the New Jersey Department of Education for **Teacher of Agricultural Science (K-12) Certificate of Eligibility with Advanced Standing***

For students enrolled in the School of Environmental and Biological Sciences (SEBS)

- I. **PROGRAM DESCRIPTION:** This five-year (4+1) teacher education program in agricultural science education, offered by the GSE and Rutgers' School of Environmental and Biological Sciences (SEBS), leads to a bachelor's degree, master's degree in science education, and initial teacher certification in agricultural education. Rutgers undergraduates do preliminary coursework and field placements as assigned during the sophomore and junior years, are admitted to the program during the spring semester of the junior year, and enter the professional education sequence in the summer between junior and senior years. Students then qualify to have their bachelor's degree awarded by SEBS.

Students continue with the professional sequence the summer after graduation. They return in the fall to complete a full-time student-teaching internship with related coursework and continue with full-time graduate study, including a field-based research project, in the spring. The Ed.M. degree is conferred upon the completion of all five-year program requirements.

After the master's degree is awarded, the GSE will make a recommendation to the New Jersey State Department of Education on behalf of the student to receive a CEAS as a teacher.

The program has four major goals:

1. To help students develop a view of science as a knowledge building enterprise and understand the scientific practices associated with scientific inquiry.
2. To help students learn pedagogical content knowledge of agricultural sciences, i.e., content specific teaching methods in this discipline.
3. To familiarize students with current state and national standards in life science education.
4. To provide students with the knowledge and skills of integrating technology into agricultural science instruction.

- II. **MAJOR:** Every candidate for certification in agricultural sciences education must complete a full major in agriculture and food systems, animal science, biology, plant science, etc. Note: not all SEBS majors are eligible for the Five-Year program.)

- III. **APPLICATION REQUIREMENTS:** To be considered for admission to the program, applicants must provide the following before the February 1st deadline:

1. Personal statement
2. Three letters of recommendation
3. Passing Praxis Core test scores
 - a. **or**, minimum SAT scores of:
 - i. 560 Reading, 540 Math (if taken 2/28/16 or earlier) or
 - ii. 610 Reading & Writing or 30 Reading, 570 Math (if taken on or after 3/1/16)
 - b. **or**, minimum ACT scores of: 23 English, 23 Math
 - c. **or**, minimum GRE scores of: 155 Verbal, 156 Quantitative

Praxis Core – see ets.org/praxis/about/core
Combined test code: 5752
Reading: 5713, minimum score 156/200
Writing: 5723, minimum score 162/200
Math: 5733, minimum score 150/200
NOTE: Praxis Core test codes were updated on 9/1/19. Passing test scores taken before 9/1/19 are still valid.

(Any test scores submitted must be less than five years old as of the application deadline. Scores must be official, not self-reported.)

4. Undergraduate transcripts - the New Jersey Department of Education requires a minimum GPA of **2.75** to be admitted to a teacher education program.

(NOTE: Admission to the GSE Teacher Education Programs is competitive. Meeting the minimum requirements above does not guarantee admission.)

IV. HOW TO APPLY: Applications are submitted online at the Graduate Admissions website:

<http://gradstudy.rutgers.edu/>

1. Click on "Apply Now" and follow the instructions given.
2. Choose "Degree Application", for Application Type.
3. For Program Name choose "Education: Science" from the drop down menu.
4. Across from "Education: Science 5-Year Program 15256T", click the link for the Summer semester.
5. For Enrollment Year, select the year when you'll be graduating with your bachelor's degree. For example, if you will be graduating with your bachelor's degree in May 2021, you should apply for Summer 2021.
6. Under First Preference Concentration, choose "Agricultural Science Certification". (2nd and 3rd preferences can be left blank.)
7. Complete the application by providing the requested information.
8. Supporting materials must be submitted online or mailed to the Graduate Admissions office at Office of Graduate and Professional Admissions (New Brunswick), Rutgers, The State University of New Jersey, 65 Davidson Road, Room 200L, Piscataway, NJ 08854-5602, U.S.A.
9. Enter payment information for the non-refundable application fee.
10. Submit your application and authorize payment for the non-refundable application fee.

V. GENERAL EDUCATION REQUIREMENTS: Students must complete coursework in each of the following areas by completion of the program; fulfillment of these courses is not required for admission into the program. It is highly recommended that you coordinate the elements of this list with those of the general distribution requirements of your undergraduate college to make the most efficient use of your time.

General Education Requirements	Course Number—Course Title—Term/Year—Grade
1. Math: two courses Follow SEBS Core Quantitative and Formal Reasoning requirement (QQ, QR)	1a. _____ 1b. _____
2. Science: two courses Follow SEBS Core Natural Sciences requirement	2a. _____ 2b. _____
3. Educational Technology: one course 05:300:462 Demonstrations and Technology in Science Teaching (see professional sequence Phase 4 below)	3. _____
4. Human Development: one course 05:300:307 Human Development: Birth through the Transition to Adulthood	4. _____

VI. LIBERAL ARTS: Students must complete a minimum of **60 credits** in liberal arts to earn the Master's degree. Neither Education courses, nor any other performance-based or vocationally-oriented coursework (accounting, engineering, human resource management, public health, social work, etc.) may be counted toward the 60 liberal arts credits; no School 05, School 15, or E-credit courses may be included.

VII. PROFESSIONAL EDUCATION REQUIREMENTS: Agricultural Science Education Five Year Teacher Education Program (SEBS & GSE)

Phase/ Semester	Course Number	Course Name	Credits		
			Under- grad	Grad	Total
Pre- Admission Sophomore or Junior Year	05:300:200	Introduction to Education	3		9.5
	05:300:201	Introduction to Education Field Based Lab - Clinical Experience	.5		
	05:300:306	Educational Psychology: Principles of Classroom Learning	3		
	11:374:416	Environmental Education	3		
Phase 1 Summer before Senior Year	n/a	Working with Minors Online Training	NC		0
	n/a	School Law Module	NC		
Phase 1 Senior Fall	05:300:498	Clinical Experience Phase 1	.5		6.5
	05:300:450	Urban Education 1	1.5		
	05:300:452	Teaching Emerging Bilinguals in PK-12 Classrooms 1	1.5		
	11:020:425	Developing Ideas in Agricultural Education	3		
Phase 2 Senior Spring	05:300:499	Clinical Practice Phase 2	4		10
	05:300:451	Urban Education 2	1.5		
	05:300:453	Teaching Emerging Bilinguals in PK-12 Classrooms 2	1.5		
	11:020:426	Teaching Agriculture and Food Systems	3		
Phase 3 Fifth Year Summer	15:293:534	Classroom Organization for Inclusive and Special Classrooms		3	6
	Grad level ^G	Elective		3	
Phase 3 Fifth Year Fall	15:255:535	Clinical Practice Phase 3		9	15
	15:255:532	Clinical Practice Phase 3 Seminar		6	
Phase 4 Fifth Year Spring	05:300:406 ^G	Community-Based Language Learning; or Teaching English Language Learners; or Students, Communities, and Social Justice		3	12
	15:253:540				
	15:255:539	Inclusive Teaching in Education		3	
	05:300:462 ^G	Demonstrations and Technology in Science Teaching (Biology)		3	
	Grad level ^G	Elective		3	
Total Credits			23	36	59

^G Course must be 300-level or above to count towards graduate credits. 300- and 400-level courses must be registered for with a **G-prefix**.

- VIII. PORTFOLIO:** Students will archive artifacts from various GSE courses via an online instructional and evaluation system as directed by faculty. Details of this portfolio are specified in the *Student Policy and Procedures Handbook*.
- IX. GSE COMMUNITY-SCHOOL PARTNERSHIP NETWORK (GSE-CSPN):** All field experiences will take place in a GSE-CSPN school.
- X. HIB TRAINING:** All candidates for teacher certification must complete pre-service training in the prevention of harassment, intimidation, and bullying (HIB) prior to Clinical Practice II.

- XI. **PRAXIS II TESTS:** There are currently no comprehensive content exam requirements for agricultural education.
- XII. **edTPA PERFORMANCE BASED ASSESSMENT:** Students must pass a performance based assessment of their teaching practice during the full-time Clinical Practice II semester. Details of this assessment are specified in the *Student Policy and Procedures Handbook*.
- XIII. **PHYSIOLOGY, HYGIENE, AND SUBSTANCE ABUSE ISSUES:** The Office of Student and Academic Services administers this New Jersey Department of Education exam during the final semester of the program.
- XIV. **COMPREHENSIVE EXAMINATION:** No comprehensive examination is required.