

## GRADUATE CERTIFICATE IN MAKER EDUCATION

- I. PROGRAM DESCRIPTION:** This ten-credit online graduate certificate program is available to students enrolled in master's and doctoral programs in many fields at Rutgers, and is open to all with a bachelor's degree. The certificate program is designed to help educators and practitioners to receive the education and resources necessary for developing competence and confidence to start and supervise a makerspace in a school, community center, or other learning space. Participants will gain proficiency in leading maker-related courses or projects, including maker-based curricula and assessments meeting common standards in STEM subjects. Participants will also explore how maker-centered projects can be leveraged as a vehicle for meaningful, discovery-based learning in mathematics, science, computer science and or integrated STEM curricula.

People of all ages can blend digital and physical technologies to explore ideas and learn technical skills as they create new products. The rapidly expanding educational and artistic uses of makerspaces can have maximum impacting fostering a new wave of applied, multidisciplinary learning experiences. There is a growing recognition that maker-centered education can transform how and what people learn in STEM. Maker-centered learning is also seen as a leading vehicle for implementing new education standards such as the Next Generation Science Standards (NGSS).

**This program does not include coursework leading to a New Jersey school personnel license.**

- II. APPLICATION DEADLINES:** No applications can be admitted less than two weeks before the beginning of the semester in which the program would be started. Applications must submitted and complete at least two weeks before the beginning of the semester.
- III. APPLICATION REQUIREMENTS:** To be considered for admission to the program, applicants must provide all of the following:
1. Personal statement/narrative (approximately one page in length) that describes why the program is relevant to the applicant's interests and/or career goals
  2. One letter of recommendation
  3. Official undergraduate transcripts

Only complete applications will be reviewed.

**IV. HOW TO APPLY:**

1. **Current GSE Students:** All applicants who are **currently** enrolled in a GSE program and wish to begin the certificate program while continuing their current program should contact the GSE Office of Student and Academic Services (OSAS) at [academic.services@gse.rutgers.edu](mailto:academic.services@gse.rutgers.edu).
2. **Non-GSE Students:** Applicants who are **not current** GSE students apply online at the Graduate Admissions website: <http://gradstudy.rutgers.edu/>
  - a. Click on "Apply Now" and follow the instructions given.
  - b. Choose "Non-Degree Application", for Application Type.
  - c. For Program Name choose "**Professional Credit Programs**" from the drop down menu. (Scroll down past all the Education programs.)
  - d. Scroll down; across from "Education: Maker Education Certificate Program 15000MS", click the link for the semester you want to apply for.

- e. Select "No" for Full-time Study.
- f. Complete the application by providing the requested information.
- g. 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, 56 Bevier Road, ASB Annex I, Piscataway, NJ 08854 U.S.A.
- h. Enter payment information for the non-refundable application fee.
- i. Submit your application and authorize payment for the non-refundable application fee.

Applicants are responsible for reviewing and confirming that they meet program requirements **before** the application is submitted. Rutgers Graduate School of Education **WILL NOT** refund the application fee if an applicant is not accepted.

When the entire application process is complete, students simply register for the courses in the program as described on the program handouts and on the GSE website [gse.rutgers.edu](http://gse.rutgers.edu). It is the responsibility of the student to enroll in all of the required courses through Rutgers University. **No program requirements may be met at any other institution.** Students are expected to maintain a "B" or better average as a non-degree student. Accepted students will have 5 years to complete the program.

After completing all of the required courses in the program, students should contact the Office of Academic Services at the GSE. Students will receive official documentation of their completion, endorsed by the Rutgers University Graduate School of Education.

**V. PROFESSIONAL EDUCATION REQUIREMENTS:**

Course Number	Course Name	Credits
15:290:553	Developing a Maker Mindset	3
15:290:554	Designing/Facilitating Maker-Centered Learning Environments	3
15:290:555	Makerspace Safety and Emergency Lab	1
15:290:559	Maker Education Capstone	3
<b>Total Credits</b>		<b>10</b>

**VI. PROGRAM FACULTY:**

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