

TECHNOLOGY, ENGINEERING AND MATHEMATICS (STEM)

Teacher Prep for College Access" **Program**

A professional learning model to equip dual enrollment teachers for college-level instruction in high school settings

www.njit.edu/precollege



A Proud History

Founded in 1979, the NJIT Center for Pre-College Programs provides STEM education of consistently high quality to enrich understanding and stretch boundaries for thousands of students, teachers and families.

We live our mission:

Inspiring young minds for college access and success in Science, Technology, Engineering and Mathematics (STEM)





Challenge: College ≠ High School

Response:

- Equip teachers to deliver college-level instruction in a high school setting
- Align syllabus to high school schedule
- Scaffold instruction systematically
- Maintain grade integrity
- Address content & experience gaps
- Build strong teacher support systems



Teacher Prep for College Access (TPCA)™: Our Dual Enrollment PD Model

- Work with colleagues teaching the same NJIT course
- Meet yearly with the NJIT professor who is the course liaison



- Meet yearly with Pre-College coaches trained in TPCA[™]
- Gain access to NJIT staff for support throughout the year
- Form a community of colleagues for sharing resources, getting questions answered, and triumphs celebrated

How TPCA™ Works in Practice

A high school teacher is approved to teach a dual enrollment course

Content Professional Development

Academic Department Course Liaison

- Levels of mastery of topics
- Appropriate use of course materials
- ✓ Teachers are apprised of student work to be submitted to the Department
- Samples of types of assessment

Per MOU, mandatory at least 1X/year

Pedagogical Professional Development

CPCP Pedagogy Specialist / Coach

- Syllabus mapped to HS schedule
- Gap & Mastery lessons
- Formative, summative assessments
- Supplemental instructional support materials
- Shared resources folders
- Dynamic collegial group developed

Periodic check-in with Course Liaison Professor to answer questions, offer suggestions

Real Power of the Model

On-going teacher check-in with colleagues teaching the same course

Turns a silo into a boundary-free world

Periodic check-in with CPCP Coach to answer questions, discuss ideas, share resources

TPCA™ Begins...

January 28, 2026 @ NJIT

General explanation of the program Liaison meeting

Leveling the syllabus

Uses of course materials

IDing anything that must come to NJIT

Kinds of assessments

CPCP staff coach meetings to

Map course syllabus to high school schedule

Create shared folder for resources

February 25, 2026 @ NJIT

Work with coaches to

ID and write Gap and Mastery lessons

Develop formative and summative assessments

Begin development of supplemental resources







For more about NJIT Dual Enrollment (Options)

 Ms. Maria Jacome-Garcia, Program Manager, Dual & Concurrent Enrollment <u>mlj4@njit.edu</u>

Ms. Jacome-Garcia oversees all aspects of dual enrollment – *NJIT Options for Advanced Academic Achievement* – including the development of an MOU with schools or districts. She is also responsible for our on-campus program for students taking credit-bearing courses, *Academy*.



For more about TPCA™

 Dr. Barbara Weller, Senior Director of Program Development <u>weller@njit.edu</u>

Dr. Weller has been a classroom teacher, staff developer, content supervisor, principal and assistant superintendent in NJ public schools. She and **a cadre of teachers** have collectively built the TPCA[™] model to support strong instruction that prepares students for advanced education.

