Family Workshop Series
January-February, 2019

Program Overview
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Center for Pre-College Programs
New Jersey Institute of Technology
Newark, New Jersey
A Closer Look at STEM

- **Science** – last week: buoyancy, propulsion
- **Technology** – this week’s workshop
- **Engineering** – last week: Engineering Design; next week: helping humans
- **Mathematics** – computation, area, volume (capacity), displacement, surface area, algorithms, …

See also *STEM* Ready brochure in your red folder
The Engineering Design Process

- Used by practicing engineers to solve real problems
- Similar to but not the same as the Scientific Method
Center for Pre-College Programs - Overview

Inspiring Young Minds for College Access and Success in Science, Technology, Engineering and Mathematics

• Programs for Students
  – School Year
    • Academy – on-campus college courses in high school sections with TA support (NJIT transcript) – Grades 9-12
    • SAT / ACT prep – Grades 8-12
    • Options – college courses taught at area high schools by NJIT-approved high school faculty using NJIT syllabus & materials (NJIT transcript)
      • Science Olympiad Regional Competition - Grades 6-12
      • TSA Teams Competition – middle and high school
      • Panasonic Creative Design Challenge – high school
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• Programs for Students continued
  – Summer
    • Academic and recreational day camp – Students completing grades 4-11
    • Academy (see above)
  – Available to Newark students only
    • College Bound
    • TRiO
    • Upward Bound English Language Learners
Center for Pre-College Programs - Overview

• Programs for Educators

• Programs for Families
  – STEM Family Workshop Series
  – Open Houses for Students and Families – last one this year is Saturday, March 23rd, 9 a.m. in the Campus Center Atrium

For more detailed information, visit www.njit.edu/precollege
Virtual Campus Tour

http://njit.college-tour.com/
NJ Inventors Hall of Fame

- Instruments to measure electrical current; dashboard ammeter for Harley-Davidson motorcycles (Edward Weston, NJIT founder)

- At NJIT: “New Jersey Knee” to Keurig coffee maker

- See first floor rotunda and http://www.njinvent.org/
NJIT Athletics

NCAA Division 1 or Equivalent

• Baseball
• Basketball
• Cross Country
• Fencing
• Lacrosse
• Soccer
• Swimming & Diving
• Tennis
• Track & Field

• Volleyball Club
• Men’s Bowling – lanes here
• Men’s Ice Hockey

NJIT
New Jersey’s Science & Technology University