



## COURSE LISTINGS

- **CREATING AND CODING**  
MR. MCGEECHAN
- **INNOVATIONS IN BIOMEDICAL  
ENGINEERING**  
MR. KEANEY
- **COMPUTER INTEGRATED  
MANUFACTURING**  
MR. MCGEECHAN
- **ANIMATION AND 3D COMPUTER GRAPHICS**  
MS. MOSER
- **LIFE THROUGH THE LENS OF MATH**  
MS. REMBETSY
- **THE FUTURE OF ROBOTICS**  
MR. CRISCITELLO
- **PROTOYPING WITH 3D PRINTERS**  
MS. VAN WINGERDEN
- **CODING - VARIATION IS THE KEY TO LIFE**  
MS. VAN WINGERDEN

### Creating and Coding (Mr. McGeechan)

This course will explore the use of VEX robotics kits and the programming language ROBOTC in engineering applications. Students will have the opportunity to design, build and program devices to solve authentic problems.

Grades: 9-12

Weeks: 4,5

Time: 9:00am-Noon

Price: \$220

### Innovations in Biomedical Engineering (Mr. Keaney)

This course will explore the use of innovative techniques in biomedical engineering. Students will have the opportunity to design and build a simple robotic arm, investigate prosthetic limbs and innovative surgery techniques, and take an in-depth look at future advances in the use of robotics in bioengineering.

Grades: 5-8

Week: 1

Time: 9:00am-Noon

Price: \$220

Grades: 9-12

Week: 2 (3 day program)

Time: 9:00am-Noon

Price: \$145

### Computer Integrated Manufacturing (Mr. McGeechan)

This course will explore the use of 3D printing and laser cutting/engraving in the fabrication of parts and structures. Students will have the opportunity to learn basic 3D CAD skills and apply their knowledge in the creation of various practical and artistic designs.

Grades: 7-12

Weeks: 2&3 (8 day program)

Time: 9:00am-Noon

Price: \$350

NEW PROVIDENCE BOE

SUMMER INNOVATION  
ACADEMY

**Animation and 3D Computer Graphics** (Ms. Moser)

This course will expose students to Autodesk Maya, a 3D computer graphics application that is used to create interactive 3D animations, including video games, animated film, TV series, or visual effects. Students will use their creativity and new learning to create animations with landscape backgrounds, functioning elements, and cartoon characters and explore how to move and operate them together.

Grades: 8-12

Weeks: 2&3 (8 day program)

Time: 9:00am-Noon

Price: \$350

Grades; 8-12

Week: 4

Time: 9:00am-Noon

Price: \$220

---

**Life through the Lens of Math** (Ms. Rembetsy)

Students will work individually, in pairs and in small groups to engage in fun activities, dynamic class discussions and meaningful mathematical application problems that highlight intriguing enrichment topics such as exponential growth, game theory, fractals, and chaos theory.

Grades: 5-8

Week: 3

Time: 9:00-10:30am

Price: \$120

---

**The Future of Robotics** (Mr. Criscitello)

Students work collaboratively in small groups to study robotics and work as future engineers to build snap-together VEX Robots. Groups collaborate and then compete against each other to complete a number of design challenges that encourage teamwork, problem-solving, and leadership.

Grades: 4-6

Weeks: 3,4

Time: 9:00am-Noon

Price: \$220

NEW PROVIDENCE BOE

SUMMER INNOVATION  
ACADEMY

**Prototyping with 3D Printers** (Ms. VanWingerden)

Students will work in pairs to create and prototype a moving 3D model, using Tinkercad. Models will be printed on the 3D printer and then students will act as engineers and collect various data on their prototype's performance. Students will analyze their results and change different variables to improve their prototype design. Once final prototypes have been printed students will compete in a final challenge and reflect on the best design components.

Grades; 5-7

Weeks: 3

Time: 9:00-11:00am

Price: \$160

---

**Coding - Variation is the Key to Life** (Ms. VanWingerden)

Students will work with 5/6th-grade mentors to experience a different coding platform every day. Students will practice their coding skills for Dash and Dot robots, Spheros, Cue, WeDos, Ozobots, and Code.org.

Grades: 2-4

Week: 3

Time: 11:00am-12:30pm

Price: \$120

---

**SUMMER 2019**

**WEEK 1: JUNE 24-28**

**WEEK 3: JULY 8-12**

**WEEK 5: JULY 22-26**

**WEEK 2: JULY 1-3**

**WEEK 4: JULY 15-19**

**WEEK 6: JULY 29-AUG 2**

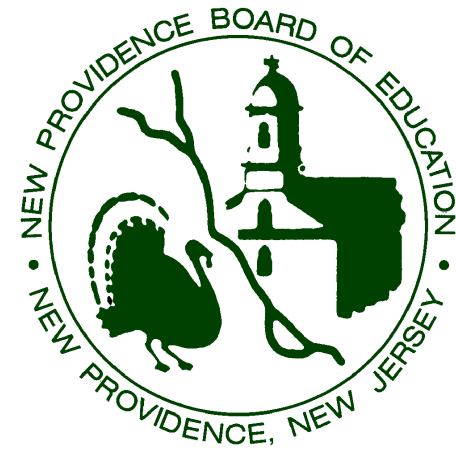
**GENERAL REGISTRATION INFORMATION:** To register online for all Recreation programs, go to [www.newprov.org/recreation](http://www.newprov.org/recreation) and click the “COMMUNITY PASS ONLINE REGISTRATION” link to be connected to the registration site, CommunityPass™ . Credit cards are accepted for payment online. To pay by cash or check, please stop in the office to register.

**REFUND POLICY FOR SUMMER CLASSES/PROGRAMS:**

- Withdrawal requests must be made at least **two business days** before the start of a class/program (except where noted below). All refunds are subject to a \$10.00 processing fee per class/program. Refunds will only be issued in the form of a credit that can be used for future Borough Recreation Programs or a check (no credit card refunds). Please allow 5-6 weeks for a refund check to be processed.

**FINANCIAL ASSISTANCE:** May be available based on the information from the Federal Free and Reduced Lunch Program. Inquire at Recreation.

**ALL WELCOME!:** We invite people of all abilities to participate in our programs. If you or your child needs any special accommodations based on a disability, please let us know.



**Central Office Administration**

David M. Miceli, Ed. D.  
Superintendent of Schools

Scott D. Hough  
Assistant Superintendent of Educational Services

James E. Testa  
School Business Administrator/Board Secretary

Jay Richter  
Director of Curriculum, Instruction,  
and Supervision

**Board of Education Members**

Adam M. Smith, Board President  
Robert S. Dinerman, Vice President

Rebecca Coniglio

Bernadette Cuccaro

Ira W. Krauss

Mary Misiukiewicz

Joseph F. Walsh