



Cranford High School Academy Programs 2020-2021



The Programs

University Program

Barbara Carroll, Director

Science Academy

Lisa Hayeck, Coordinator

Academy of Performing Arts

Anthony Rafaniello, Coordinator

The academies offer students opportunities to explore their interests in a specialized learning program. Courses, enrichment experiences, mentorship, professional and collegiate connections forge a differentiated path for each student.

University Program: The Past

- University established in 2005
- Awarded Promising Practice in 2009
- 410 student graduates
- Reflects top 12% of Cranford High population
- Graduates attend top colleges and universities
- Graduates earn master's and doctoral degrees

University Program: The Present

- 52- Freshman; 43- Sophomores; 31 Juniors
- 41 Graduating seniors
- Course Requirements:

Grade 9- AP World History Modern

Grade 10- English II Honors; one AP course

Grade 11- AP English Language and at least one additional AP course

Grade 12- University Seminar and a minimum 2 AP courses

University Program: The Present

Why apply to the University Program?

1. Every University student has a mentor. They meet monthly in small groups.
2. Every University student earns the distinction of being accepted into an accelerated learning academy.
3. University students have a high rate of success on standardized tests.

The Present

The Facts:

	CHS University Students	Cranford High Students	New Jersey High School Students	National High School Average
SAT Verbal Average	678	589	539	538
SAT Math Average	684	589	537	533
Combined Average	1362	1178	1076	1071

University Program: The Plan

Grade 9- AP World History- meet Mr. Hoglund

Grade 10 - Honors English 10 & 1 AP - Dr. Carroll

Grade 11- AP English Language - meet Ms.

Hilborn

Grades 10-12- STEM Opportunities- meet Mrs.

Morrissey

Grade 12- University Research Seminar: Academic
and Action - Dr. Carroll

University Program: Opportunities

Service opportunities

“The best way to find yourself is to lose yourself in the service of others.” Mahatma Gandhi

Junior Internship

“For the things we have to learn before we can do them, we learn by doing them.”

Aristotle

Online Summer College

The Science Academy

- Students may apply to the Science Academy during 8th and 9th Grade
- Health Care Sciences
 - Established in 2009
- Engineering
 - Established in 2012

The Science Academy

Goals & Objectives:

- 1) To allow students to explore possible careers within their concentration.
- 2) To guide students to their journey to a possible career/occupation.
- 3) To explore options within each area of concentration.
- 4) To develop individualized plans with an advisor to assist each student in reaching their own personal goals.
- 5) To study in their area of concentration and extend to outside the traditional day.

The Science Academy

Health Care Sciences

- Professional Careers
 - Medical Doctor, Vet, Physical Therapist, Dentist, Occupational Therapist, Social worker
- Technician or Technologists Careers
 - Ultrasound Technician, Dental Lab Technician, EMT, Surgical Technician,
- Aides/Assistants Careers
 - Dental Assistant, Nurse Assistant, Hospital Worker, Recreational Therapy Assistant,

The Science Academy

Health Care Sciences

- RUTGERS Courses for College Credit
 - Emergency and Clinical Care
 - Nutrition
 - Medical Terminology
 - Dynamics of Health Care
 - \$70.00 fee per course

Course Recommendations will vary by career choice

- Organic Chemistry, Anatomy & Physiology, Psychology, Forensics, Sociology, Rutgers Courses

The Science Academy

Engineering

- Mechanical Engineering
- Electrical Engineering
- Biomedical Engineering

Course recommendations will vary by career choice

- CADD, Pre-Engineering & Robotics, Automotive Technology, Physics, Construction Technology, Computer Programming, Coding, Medical Terminology, Anatomy & Physiology, **CADD : Architectural Studio: Personalized Projects, CADD- Architectural Office: Landscape Architecture, Urban Planning, and Commercial Context**

The Science Academy

Recent Learning Experiences

- STEM Kean
- STEM Research Guest Speaker
- Presenters from Pfizer, NJ Watershed, Centenary College Veterinarian Program
- Robotic Surgery, Kidney Transplant Surgery, Pediatric Surgery, Neonatal-Surgery, Knee Replacement
- Rahway Valley Sewerage Authority Plant Tour
- Rutgers University Geology Museum & Engineering Activity
- NJIT Engineering Day
- Women in Science FDU
- Princeton Women in Engineering Day
- Children's Specialized Hospital Fundraising and Presentation

The Science Academy

What do students need for acceptance into science academy?

1. Strong Interest In Medical or Engineering Field
2. B Average In Major Subject Areas (Science, Math, Social Studies, English)
3. Completed Application
4. Interview
5. Essay

The Science Academy

Member Requirements:

- Volunteering
- Active Participation In Events
- Maintaining B average
- Completion of suggested courses
- Good Discipline and Attendance Records

Applications Due 12/16/2019

The Academy of Performing Arts

Highlights of the Performing Arts at Cranford High School

<https://www.youtube.com/watch?v=YXC809UzbNQ>

Academy of Performing Arts

established in 2008

Acting

Dance

Technical Theater

Music

The Academy of Performing Arts

Acting

- Development, preparation and performance of scenes, monologues, improvisation, movement.
- Academy participation in Speech and Theatre Association of NJ annual competitions.
- Academy presentation of full-scale production in spring.

Coursework and Opportunities

- Elements of Acting – open to all students 9-12
- Acting 1 and Acting 2/3 – 9-12 by application/audition
- Additional coursework could include: Film Production, Film as an Art Form, Speech Arts, Women's/Men's Chorus, Musical Theater Dance, Elements of Dance.
- Extracurricular shows, International Thespian Society

The Academy of Performing Arts

Dance

- Development of performance skills emphasizing modern and ballet, with study of anatomy, choreography, history, and music.
- Presentation of Winter and Spring Concerts of class work and student choreography.
- Master classes, guest artists, and festival opportunities including the Regional HS Dance Festival, 92nd Street Y in New York City

Coursework and Opportunities

- Elements of Dance and Musical Theater Dance – open to all students 9-12
- Dance 1 and Dance 2/3 – 9-12 by application/audition
- Additional coursework could include: Elements of Acting, Men's/Women's Chorus, Anatomy & Physiology, Film & Video Production, Sound Production & Design.
- Extracurricular Dance Club, National Honor Society for Dance Arts

The Academy of Performing Arts

Technical Theater

- Comprehensive study of set design and construction, stage lighting, and sound equipment.
- Application of skills to CHS concerts, productions, and assemblies and collaborate and learn from professionals working in the field.

Coursework and Opportunities

- Academy Technical Theater - 10-12 by application/audition, Grade 9 students may apprentice in the program.
- Extracurricular stage crew – open to all students 9-12
- Opportunities to work CHS auditorium rentals for stipend
- Additional Coursework could include: Sound Production & Design, Film & Video Production, Woods, CADD, Pre-Engineering & Robotics

The Academy of Performing Arts

Music

- Participation and performance in historically strong and established choir and instrumental programs.
- Individualized coaching and preparations for performance and auditions.

Coursework and Opportunities

- Band, Orchestra, Tenor/Bass Chorus, Treble Chorus – open to all students grade 9-12
- Jazz Ensemble, Concert Choir, Madrigal Choir – grades 10-12 by audition
- Music Theory I & II and Advanced Placement Music Theory
- Additional coursework could include: Sound Production and Design, Guitar, Film & Video Production

The Future

Where are our academy students now?

Princeton

Yale

West Point

University of Chicago

University of Pennsylvania

Duke University

Dartmouth

Williams College

Bowdoin College

Wellesley College

Haverford College

Rice University

University of Virginia

Wake Forest University

Tufts University

New York University

University of North Carolina

Boston College

Bryn Mawr College

William and Mary

Boston University

Bucknell University

Northeastern University

University of Florida

Lehigh University

Villanova University

Penn State University

Purdue University

Syracuse University

Stevens Institute of Technology

Georgetown University

Muhlenberg College

Marymount Manhattan College

Westminster Choir College

The Future

University Dates

Applications due:

December 16, 2019

(either mail, drop off or email to
carrollb@cranfordschools.org)

Essay Dates: Wednesday, January 8, 2020

Saturday, January 11, 2020

Interviews : Weeks of February 10 -18

Acceptances: March 2020

University Induction: Thursday, April 2, 2020 @ 4:00 PM

The Future

Academy of

Performing Arts

Applications due:

December 16, 2019

Mr. Anthony Rafaniello
Cranford High School

Auditions and interviews will be
scheduled for
February or March 2020

Science Academy

Applications due:

December 16, 2019

Mrs. Lisa Hayeck
Cranford High School

Interviews will be scheduled for
March 2020

The Future

Where do you want to be in 2024?



*Cranford High School Academies
will help you get there!*

Our Students

**Our students are our best advertisement
for our programs!**