

The Academies at Bound Brook High School

Bound Brook High School has created a new academy for the 2011-2012 school year! The new academy will be Bio-Medical Project Lead the Way that will be implemented following the tremendous success of our Engineering Project Lead the Way academy. Bound Brook High School was the first school in the State of New Jersey to offer the Project Lead The Way Engineering Program. Our Project Lead The Way Engineering Program has been a model used by numerous districts to implement this curriculum. Our program includes both practical theories of engineering and physics but also applied practices in our state of the art engineering laboratory. Our engineering laboratory was developed and built in partnership with the Johnson and Johnson Corporation and Ethicon in the early 1990's. Ethicon, to date, is a full partner in our engineering program assisting the district with financial resources and adult mentors for our students. Following the successful partnership of our Project Lead The Way Engineering program, the Johnson and Johnson Corporation, Ethicon, Somerset Medical Center, Raritan Valley Community College, Rutgers and Bound Brook School District partnered together in the development of an Allied Health Bridge to Employment Program. At the conclusion of this program seventeen students graduated from the program and all students went on to college to further their post secondary studies. Building upon our successes, Bound Brook High School will be offering a Bio-Medical Project Lead The Way Academy next year.

Student Selection Criteria

Because of the nature of the science, technology, engineering and mathematics (STEM) curriculum used for these programs, the criteria for student selection is competitive. Required for acceptance to the Engineering or Biomedical Academies for all students will be:

1. Students will have scored proficient on all state standardized tests
2. Students will have three teacher recommendations from their previous year's teachers or have been enrolled in honor level classes
3. Students will have an overall grade point average of 85 or better (because of our success with struggling students, we are willing to take students who have less than an 85 average as long as we have enough qualified mentors)
4. Students will have minimal discipline issues, less than ten points from the previous school year based on the evaluation using the discipline system currently in place at the high school.
5. Parents and Students will complete the application fully and sign that all information is truthful and accurate

Schedule Courses for Four Years

Bio-Medical Academy

Grade 9	Grade 10	Grade 11	Grade 12
English	English	English	English
Social Studies	Social Studies	Social Studies	College-prep Mathematics
College-prep Mathematics	College-prep Mathematics	College-prep Mathematics	College-prep Science
College-prep Science	College-prep Science	College-prep Science	Biomedical Innovation
Principles of the Biomedical Sciences	Human Body Systems	Medical Interventions	Elective
Foreign Language	Foreign Language	Fine Arts	Elective
Physical Education	Physical Education	Physical Education	Physical Education

Engineering Academy

Grade 9	Grade 10	Grade 11	Grade 12
English	English	English	English
Social Studies	Social Studies	Social Studies	College-prep Mathematics
College-prep Mathematics	College-prep Mathematics	College-prep Mathematics	College-prep Science
College-prep Science	College-prep Science	College-prep Science	Engineering Design & Development
Introduction to Engineering Sciences	Principles of Engineering Sciences	Digital Electronics	Physical Education
Foreign Language	Foreign Language	Fine Arts	Elective
Physical Education	Physical Education	Physical Education	One Elective in the following:
			*Computer Integrated Manufacturing
			*Civil Engineering & Architecture
			*Biotechnical Engineering

College Placement

All of our students in our engineering academy have attended four-year universities upon graduation. Graduates have been accepted into the following institutions in the last six years:

Harvard University	University of Point Park
Virginia Tech	William And Mary University
Rutgers University	Edinboro University
Drexel University	Manhattan College
Washington and Lee University	Anderson College
Syracuse University	Northeastern University
New York University	Sweetbriar University
Penn State University	Towson State University
Drew University	Boston University
Rider University	Fashion Institute of Technology
Johnson and Wales University	NJ Institute of Technology
Lehigh University	So. Carolina Institute of Technology
Johns Hopkins University	New York Institute of Technology
Seton Hall University	Briarcliff College
Lock Haven University	LIM College
Fairleigh Dickinson University	University of South Carolina
University of the Arts in Philadelphia	University of Hawaii
The College of NJ	University of Philadelphia
Coastal Carolina University	University of Massachusetts
Marywood University	Callheim European University

ACADEMIES AT BOUND BROOK HIGH SCHOOL APPLICATION FORM

Personal Data – please print clearly

Name_____

Address_____

Student State Identification Number_____

Age_____ Home Phone Number_____ Parent Cell Phone Number_____

Parent/Guardian Work Number_____

Home Language_____

Are you involved in any school activities such as clubs, sports, etc.?

_____No _____Yes – If yes, list the activities below:

List any hobbies, other interests, etc.

3. What careers are you interested in and why? How will being a part of this academy help you with your career interests? (life experiences, courses, teachers, activities, etc.)

If selected for the program, I agree to allow my child to participate in all of the curriculum activities in Bound Brook Academy and understand that my child will be enrolled in classes with other students who are participating in the Bound Brook Academy. I also fully understand that child will not be able to leave the academy at anytime during the school year, only at the end of a particular year will they be allowed to leave the academy.

Parent/Guardian-Student Sign-off

I give permission for _____ to participate in the
(name of child)
Academies at Bound Brook High School.

Print name of parent/guardian_____

Signature of parent/guardian_____

Print name of student_____

Signature of student_____

**Return to:
Academies at Bound Brook High School
111 West Union Avenue
Bound Brook, NJ 08805**

Checklist

- **Completed and signed application**
- **Copy of standardized test data record**
- **Copy of code of conduct record**
- **Copy of attendance record**
- **Two letters of recommendation and a copy of a current report card**