RECOMMENDATIONS

Student's Name:_____

Math Teacher Recommendation *(Please answer all questions)*

1. How long have you taught the applicant?_____
2. Subject(s)_____
3. How would you evaluate the applicant in relation to others in class in the following areas on a scale of 1 to 5 with 5 being the highest?
   A. Problem-solving ability _____ C. Grasp of new concepts _____
   B. Attention and interest _____ D. Attention to detail _____
4. Briefly describe the applicant's behavior in class. _____
5. Describe the applicant's interpersonal skills (e.g., does he/she prefer to work alone or with others, outgoing, shy, etc.). _____

Teacher's Name _____ Signature _____

Science Teacher Recommendation *(Please answer all questions)*

1. How long have you taught the applicant?_____
2. Subject(s)_____
3. How would you evaluate the applicant in relation to others in class in the following areas on a scale of 1 to 5 with 5 being the highest?
   A. Problem-solving ability _____ C. Grasp of new concepts _____
   B. Attention and interest _____ D. Attention to detail _____
4. Briefly describe the applicant's behavior in class. _____
5. Describe the applicant's interpersonal skills (e.g., does he/she prefer to work alone or with with others, outgoing, shy, etc.)._____

Teacher's Name _____ Signature _____

Guidance Counselor Recommendation *(Please answer all questions)*

1. How long have you known the applicant?_____
2. Briefly describe applicant's behavior and/or are you aware of any behavior or social problems? Explain:_____
3. Would you recommend the student to our program? ❑ Yes ❑ No ❑ Maybe
   Please explain: _____

Counselor's Name _____ Signature _____

About NJIT

Founded in 1881 as Newark Technical School, New Jersey Institute of Technology is New Jersey's science and technology university. Situated in the University Heights section of Newark, NJIT contributes to the region's development and economic growth through programs of instruction, research and public service. NJIT is among the leading comprehensive technological universities in the nation. The university has state-of-the-art facilities with more than two million square feet of space located on a 45-acre campus. The university offers full- and part-time undergraduate and graduate studies through six schools: Newark College of Engineering, the College of Architecture and Design, the College of Science and Liberal Arts, the School of Management, the Albert Dorman Honors College, and the College of Computing Sciences. Recreational facilities include indoor racquetball courts; indoor track; six-lane competition pool; a fitness and weight training center; tennis courts; and facilities for fencing, judo, aerobics and dance, softball, basketball and more.

On-campus Security

NJIT has one of the safest campuses in the state. Our professionally trained campus police force is on duty 24 hours a day, seven days a week, and entry to every residence hall is monitored around the clock.

Special Things to Know about NJIT

- NJIT tied with MIT for 7th in the nation for campus diversity in the U.S. News survey.
- NJIT ranks among the nation's 25 "most connected" campuses, according to Forbes.com.
- NJIT ranks among "Top American Research Universities" in an annual study by The Center at the University of Florida.
- NJIT is home to one of the nation's largest university-based environmental research centers.
- NJIT's pre-college programs have been recognized as a national model for pre-college education.
- Summer classes meet Monday through Thursday.

Features of Academy College Courses:

- Peer learning with other talented high school students
- A scholarly, multicultural university experience
- Full room and board available during Summer Session (optional)

ACADEMY COLLEGE COURSES

at NJIT are designed for high achieving high school students who want to get a jump on their college careers. Participants may earn up to eight college credits in small, customized classes taught by faculty who have been recognized for their commitment to teaching excellence. Classes meet on Saturdays during the Spring Session and Monday through Thursday during the Summer Session. At the end of the program, grades are recorded on an NJIT transcript which, upon your request to the registrar, will be sent to the university or universities of your choice. Course credits can be applied toward an undergraduate degree at NJIT and at most other colleges and universities. Academy College students have the option of living on the NJIT campus during the Summer Session (at an additional charge) or commuting to the university. As a campus resident, you will live in one of NJIT's modern, air-conditioned dormitories, arriving Monday morning each week and leaving on Thursday. Specially trained counselors will help make your stay comfortable.

Key Dates to Remember

Spring Semester: Jan 26 – May 18, 2013

Dec 10:	Application deadline
Jan 11:	Notification of acceptance
Jan 26:	First day of Spring 2013 Academy College Courses
May 18:	Last day of Spring 2013 Academy College Courses

Summer Semester: July 8 – Aug 8, 2013

May 24:	Application deadline
June 14:	Notification of acceptance
July 8:	First day of Summer 2013 Academy College Courses
	Check-in for on-campus residents
Aug 8:	Last day of Summer 2013 Academy College Courses

NJIT does not discriminate on the basis of sex, sexual orientation, race, color, disability, veteran's status, national or ethnic origin, or age in the administration of student programs. Campus facilities are accessible to the disabled.

NJIT®
New Jersey's Science & Technology University

CENTER FOR PRE-COLLEGE PROGRAMS

Academy College Courses in Science, Technology, Engineering, Mathematics & Business

For High School Students

Academic Year 2013

The Academy College Courses at NJIT are designed for high achieving 11th and 12th grade high school students eager to get a jump-start on their college careers by earning college credits while still in high school.

www.njit.edu/precollege

NEW JERSEY INSTITUTE OF TECHNOLOGY
CENTER FOR PRE-COLLEGE PROGRAMS
CENTRAL AVENUE BUILDING, 2ND FLOOR
UNIVERSITY HEIGHTS, NEWARK, NJ 07102-1982

THE EDGE IN KNOWLEDGE

Academy College Courses Academic Year 2013

Art & Design

AD 111 – Communication in Art & Design (3 credits): This course will explore a range of subjects from object still life to the human figure to landscape and will deal with specific issues of line, value, composition, structure, proportion and perspective. The aim of this course is to achieve a critical approach to hand-eye coordination and ideational sketching, through both direct observation and conceptual diagramming.

Business

Mgmt 190 – Industrial Organization and Management (3 credits): Introduction to business enterprise, including organization structure, basis of authority and responsibility, financial systems, marketing, the interaction of government and business, and the interrelationships of the broad economic, political, psychological and social influences upon business. This is an entry level management course.

Chemistry

CHEM 125 – Fundamentals of Chemistry (3 credits): An introduction to the basic concepts of chemistry, including chemical reactions and bonding, electronic and molecular structure, gases and thermochemistry.

Engineering

FED 101 – Fundamentals of Engineering Design (2 credits): Teams of students work on open-ended engineering projects. Sections are offered to represent an introduction to real-world engineering design problems in a specific engineering discipline. Topics covered include introduction to basic engineering design elements, processes, measurements, product and project design and development, with hands-on experiments in a specific major area. Students also learn to use engineering tools for computer-aided design and simulation. Technical writing and oral presentation along with project management skills are emphasized.

English Composition

HUM 101 – English Composition: Writing, Speaking, Thinking (3 credits): Provides instruction in written and oral communication in the context of the first-year college curricula. Emphasizes critical thinking as essential in producing effective expository writing, with readings and writing assignments drawn from the humanities, engineering, and social and natural science. Course satisfies the English GUR.

Information Technology

IT 101 – Introduction to Information Technology (3 credits): Overview of emerging information technologies and the developmental principles. Discusses applications of Internet infrastructure and the impact on business and information technology professionals and society. Covers such topics as multimedia systems and standards, e-commerce applications, distributed design and manufacturing, and geographical information systems. Problem solving and program development is integrated throughout the course by using Java language as a vehicle to illustrate the concepts.

Mathematics

MATH 139 – Trigonometry and Principles of Differential Calculus (4 credits): Trigonometry and Principles of Differential Calculus Prerequisites: Grade A in Math 107 or NJIT placement. Comprehensive review of trigonometry and pre-calculus topics integrated into an introduction to differential calculus. Topics covered include: Exponential, logarithmic and trigonometric functions, analytics trigonometry, conic sections, limits, derivatives, applications of differentiation.

MATH 111 – Calculus I (4 credits): Considers the theory and techniques of differentiation and integration with applications of both processes to engineering and science. Pre-Requisite Math 139 or equivalent.

Physics

PHYS 111/111A – Physics I and Physics I Lab (4 credits): This course deals with the study of elementary mechanics. Emphasis is on the fundamental concepts and laws of mechanics, especially conservation laws. Topics discussed are: motion; equilibrium and Newton's laws of motion; work, energy and momentum; and conservation laws. Lab must be taken concurrently.

College credits can be applied toward an undergraduate degree at NJIT and other colleges or universities of your choice. Students should consult the universities they plan to attend to determine the applicability of specific courses to their programs of study.

Costs and Procedures

How to Apply

11th and 12th grade students who can demonstrate superior academic ability, intellectual curiosity and maturity are invited to apply. The application process, outlined below, will help us to assess these qualities.

- Complete the attached application and recommendation forms.
- Submit a copy of your high school transcript.
- Submit a copy of your PSAT or SAT scores, if available.
- Be sure your parent or guardian signs the application.
- Submit a non-refundable $60 application fee.
- Send all application materials, including application fee, by Dec 10, 2012 for Spring Session and May 24, 2013 for Summer Session to:

NJIT®
New Jersey's Science & Technology University

Academy College Courses
Center for Pre-College Programs
Central Avenue Building, 2nd Floor
University Heights
Newark, New Jersey 07102-1982
Attn: Ms. Ana Cortina

Make check or money order payable to:
NJIT Pre-College Programs

Program Costs

TUITION AND FEES

Application fee: $60 (non-refundable)

Tuition fee: $472 per credit

Textbooks: Costs depend on course(s) taken. Books can be purchased at the NJIT Bookstore and online.

ON-CAMPUS LIVING COSTS (Summer Session Only)

Room & Board: $1,700 (3 nights/week, 5 weeks)

Fees for room and board cover lodging and meals from July 8 through August 8, 2013.

Eligibility

Spring Session: Current 11th and 12th grade students

Summer Session: Students completing 10th and 11th grades

Program Dates

Spring Session: Jan 26 – May 18, 2013
Saturdays Only

Summer Session: July 8 – Aug 8, 2013
Monday – Thursday

Acceptance Procedures

Your application will be evaluated as soon as your file is complete. An application is considered complete once all outlined items under the **"How to Apply"** section have been received by the Center for Pre-College Programs.

A notification letter will be mailed to your home regarding your application status. If accepted, a packet with required information must be completed by the deadline date indicated on your letter.

Late applications will be considered on a space available basis.

Dorm Registration and Check-in

Campus residents can check into a residence hall on July 8, 2013.

Refunds

Tuition **(application fee is not refundable)** can be refunded if written notification of cancellation is received by the Center for Pre-College Programs before Dec 17, 2012 for the Spring Session and June 21, 2012 for the Summer Session.

To Learn More

For detailed descriptions of courses offered, or any other information, please call:
(973) 596-3550
or e-mail cpcp@njit.edu

NOTE: Applications are closely reviewed and are considered on a case-by-case basis. Prior to accepting registrations, the university may make recommendations regarding course selection based on students' ability, current transcript and academic history.

Academy College Courses in Science, Technology, Engineering, Mathematics and Business Academic Year 2013 Application Form

New Jersey Institute of Technology, Center for Pre-College Programs, University Heights, Newark, NJ 07102-1982 • Attn: Ms. A. Cortina

Student Name _____
First | Middle Initial | Last

Address _____
No. & Street | Apt. or P.O. Box #

_____
City | State | Zip Code

Date of Birth (Required) _____ /_____ /_____ Gender ❑ Male ❑ Female

Student's E-mail Address (Required) _____

Parent's E-mail Address (Required) _____

Most program communication will be sent via email.

School Name _____

School City _____ County _____

Current Grade _____ High School Graduation Year _____

First Choice Course Selection ❑ *Spring Session* ❑ *Summer Session*

_____
Course Number | Course Title

Second Choice Course Selection ❑ *Spring Session* ❑ *Summer Session*

_____
Course Number | Course Title

On-campus Housing Requested (Summer Only) ❑ Yes ❑ No

Father's Full Name: _____

Home Phone: (____) — _____ — _____ Cell: (____) — _____ — _____

Work Phone: (____) — _____ — _____

Mother's Full Name: _____

Home Phone: (____) — _____ — _____ Cell: (____) — _____ — _____

Work Phone: (____) — _____ — _____

Have you taken an Academy College Course at NJIT before? ❑ Yes ❑ No

How did you hear about our program?
❑ Internet ❑ School ❑ Newspaper ❑ Friend ❑ Alumni ❑ Other

This section to be completed by the parent or guardian

_____ has my/our approval to enroll in the Academy College Courses at NJIT.
Student Name

Name _____
(Please Print)

_____
Parent Signature | Date