Academy of
Information
Technology

A NAF MEMBER PROGRAM

ACADEMY
OF INFORMATION
TECHNOLOGY
(PARTNERSHIPS FOR AMERICA'S YOUTH)

INFORMATION SHEET

National Academy Foundation

The National Academy Foundation (NAF) is a nonprofit 501(c)3 intermediary organization that sustains a national network of local career academies by providing technical assistance and program support in four program areas—the four pillars of the NAF Academy model:

Academy Curriculum
▸ A comprehensive, standards-based high school career education course sequence

Staff Development
▸ NAF-sponsored activities include: annual conferences, regional meetings, site visits, and on-line forums
▸ Provides training opportunities for teachers to become proficient with curriculum
▸ Supports educators, administrators, counselors, and advisory board members

Local Advisory Boards
▸ Secure quality, paid internships for Academy students.
▸ Support field trips, mentoring, and shadowing experiences for students
▸ Assist in curriculum development and revision.
▸ Raise awareness of the Academy and build community support

Paid Student Internships
▸ Industry-specific placements for six weeks during the summer
▸ Earned through an interview and fulfillment of coursework
▸ Provide hands-on experience and exposure to a range of career options.

What is an Academy?

▸ Small learning communities within public high schools
▸ Students take classes around a career theme
▸ Partnerships with employers, the community, and local college to bring resources from outside the high school to improve student motivation and achievement

Academy of Information Technology

Academy of Information Technology (AOIT) students follow a curriculum that is intensive in information technology.

It is one of several model programs established to promote educational excellence by the NAF. This partnership links the resources of business, education, government and community.

The AOIT bridges the gap between the classroom and the workplace. It helps students develop career skills, evaluate their own potential for success and establish personal goals through an enriched, two-year comprehensive academic program. In addition to required academic high school courses, students in the AOIT take courses developed by NAF in collaboration with leading educators and industry experts.

Criteria for Selection

▸ **Commitment to the three-year program and the summer internship at a business firm**
▸ **Average or above average achievement**
▸ **Excellent attendance**
▸ **Faculty & Guidance recommendation**

Paid Internship

NAF requires each Academy student to complete a paid, industry-related internship as part of his or her Certificate of Academy Studies core requirements. This policy has been designed in keeping with the larger national school-to-career movement and recognizes that work site-based learning is integral to any system designed to deliver workforce preparedness education.

Academy of Information Technology students will bridge the gap between the classroom and the workplace by learning first hand how to function in a business setting that requires a high level of performance and accountability. This is for students who have successfully completed their junior year in the academy. All potential interns prepare a resume and take part in a pre-internship interview. Credit will be given to those students who complete their paid internship and submit the requirement log and intern report.

Chapel Hill High School
1709 High School Road
Chapel Hill, NC 27516

Chapel Hill-Carrboro City Schools
Career and Technical Education

$$\boxed{CTE}$$

Curriculum

10ʰ Grade
Introduction to Information Technology (Y)
Web Page Design & Digital Media (Y)

11 Grade
AOIT Network Engineering I (Y)
Internship Seminar (S)

Rising Senior Summer
Paid Internship

12ᵗʰ Grade
AOIT Network Engineering II (Y)
College Credit: Introduction to Programming/Logic (S)
College Credit: Introduction to Business Administration (S)

Every Scholar Needs A Skill

Educational Component

Superintendent of Schools
Dr. Neil Pedersen
Assistant Superintendent of Schools
Dr. Nettie Collins-Hart
Career & Technical Education Director
Pamela Bello
Principals
David Thaden, ECH HS
Mary Ann Hardeback, CH HS
Assistant Principals
Geraldine Young, ECH HS
Mervin Jenkins, CH HS
Career Development/Information Coordinators
Linda Parker, ECH HS
Winslow Carter, ECH HS
Doug Glasgow, CH HS
Technology Specialists
Tracy Weeks, ECH HS
Michelle Ammann, CH HS

Advisory Board

Chuck Willingham, Chair
Independent Businessperson
Gary Gaulden, Vice-Chair
American Express Financial Advisors
Bob Dermody, Secretary
UNC–CH D.A.S Team

Joe Davis
First Union Securities
Henry Essey
Bank of America
Peter B Guild
Salomon Smith Barney
Norm Klase
UNC Hospitals
Wes Pope
Central Carolina Bank
Wilborn M Roberson
Banking & Trust Co.
Leila K Russell
BioSignia, Inc.

ACADEMY OF INFORMATION TECHNOLOGY

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ACADEMY OF INFORMATION TECHNOLOGY
AOIT COURSE DESCRIPTIONS

Introduction to Information Technology

This is a full-year course for AOIT students. Students are presented with the basic concepts of Information Technology and the impact on the world, people, and industry. Included in this course is the introduction to operating systems, programming and computer applications with segments on word processing, spreadsheet, E-mail, browser and desktop publishing. Infused in this course are the National Academy Foundation Strategies for Success units. Field trips, visits from industry experts will be part of the class. Plans are to integrate units of one or all of the following areas: Math, Science and English. The curriculum was created by National Academy Foundation and its industry partners.

Web Page Design and Digital Media

This is a full-year course for AOIT students. Students will be presented with the foundation of effective web page design. The introduction of HTML, the language of the web, DHTML and Java Scripting will help prepare students to provide acceptable accessibility and performance standards. Plans are to integrate units of one or all of the following areas: Math, Science and English. The curriculum was created by National Academy Foundation and its industry partners.

AOIT Network Engineering I

This is a full-year course for AOIT students. Students will learn to identify typologies used in network design, models of transmission, Internet addressing schemes, managing the flow of information traffic as well as implementing hardware into the network infrastructure. Students will be programming hardware such as routers, the gateway to the Internet, in addition to building working model networks with industry standard equipment in a lab set up. Basic concepts of functionally connecting multiple computing devices are addressed in this course. Physical connections as well as logical connections are presented. Concepts such as bandwidth, access time, data rate, error detection and correction are covered. The culmination of this course and AOIT Network Engineering II requires the students to prepare for the Cisco Certified Network Associate (CCNA) exam. Plans are to integrate units of one or all of the following areas: Math, Science and English. The curriculum was created by National Academy Foundation, its industry partners and Cisco.

AOIT Network Engineering II

This is a full-year course for AOIT students. The culmination of this course requires the students to prepare for the Cisco Certified Network Associate (CCNA) exam must design enhanced networks that not only provide additional security, but also provide more diversity in their applications. Students will be expected to design their own networks that would be used in real life applications. Plans are to integrate units of one or all of the following areas: Math, Science and English. . The curriculum was created by National Academy Foundation, its industry partners and Cisco.

College Component

This includes two 3-credit semester (fall and spring) college courses.

Internship Seminar

Seminar sessions will prepare the AOIT students for their 6-week paid summer internship. The curriculum was created by National Academy Foundation and its industry partners. Sessions will include preparation of letters of application, applications, resumes, portfolios. Interview preparation will include industry presentations and role play workshops.

Academy Of Information Technology

Chapel Hill High School
1709 High School Road
Chapel Hill, NC 27516

PHONE: (919) 929-2106 ---- FAX: (919) 969-2455

*National
Academy
Foundation*
PARTNERSHIPS FOR AMERICA'S YOUTH

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APPLICATION FORM

___East Chapel Hill High School   ___Chapel Hill High School   Student ID _____

Name _____ / _____
          (Last)   (First)   (Date of Birth)

_____ / _____
(Street –   City, State –   Zip Code)   (Telephone Number)

Guidance Counselor: _____   Social Security No:_____

1.   Previous work experience (briefly describe):

_____

2.   Volunteer experience (briefly describe):

_____

3.   List club memberships and extra-curricular activities:

_____

4.   List any enriched or honors courses you have taken:

_____

5.   How many days have you been absent this year?

❑ 0 - 5   ❑ 6 - 10   ❑ 11 - 20   ❑ 21 +

If more than 5, briefly explain why? _____

6. What was your overall grade point average this past quarter? _____

   First Quarter Grades: Mathematics _____   English _____

         Teachers: Mathematics _____ English _____

7. What foreign language(s) have you taken in school?

   8th Grade _____

   9th Grade _____

   10th Grade _____

8. Why are you interested in being selected for this program? _____

   _____

   _____

   _____

9. Attach a Student Activities Resume.

10. On a separate sheet of paper, word process or type a brief paragraph (six to ten sentences) describing yourself.

I understand that if I am accepted into this program, I will be committed to:
   1) Participate in an Orientation Meeting in June and
   2) Participate in a paid internship program during the summer after my junior year.

_____
     (Signature of Applicant)   (Date)

I have read this application and information sheet and approve of my child's participation in the Chapel Hill-Carrboro City Schools *Academy of Information Technology* at Chapel Hill High School if he/she is selected.

_____
     (Signature of Parent)   (Date)

PLEASE RETURN THIS APPLICATION TO:

East Chapel Hill High School   **Chapel Hill High School**
Mr. Carter – CIC Office   Mr. Glasgow – Counseling Center

A C A D E M Y   O F   I N F O R M A T I O N   T E C H N O L O G Y