



*Information Technology  
for the 21st Century*

# Information Technology at Anatolia

Technological advances in the computer area make it necessary for today's students to prepare themselves for a constantly changing computer world. Anatolia was one of the first schools in Greece to "go live" in the mid-1990's, and the institution has strived for the last decade not just to keep up, but to stay on the cutting edge of technology-mediated solutions to rapid data transfer and information delivery to classrooms, Anatolia's two libraries, faculty offices, and administrative support services.

Anatolia's IT mission includes three key elements:

- To remain at the forefront of advances in IT and to continuously improve the school's infrastructure, applications, accessibility, and security
- To become a pioneer in the full integration of technology into the learning process, providing new models and paradigms of technology-enhanced learning for Greece and Southeast Europe
- To achieve maximum efficiency and transparency in integrating technology into all school administrative functions

The Anatolia infrastructure is composed of 4 ADSL 1 Mbps linked lines, with total speed of ca. 4 Mbps and an independent ADSL line (1Mbps) as backup. These lines connect all main campus buildings by means of optical fibers or FTP cat5e connections. The nine main network nodes have routers to meet the internal needs of each building and insure stable connectivity to other buildings. Connection speed is 100Mbps within buildings, with a 1000Mbit backbone linking the network's two major sub-divisions: Anatolia high school and ACT.



## IT at Anatolia High School: In and Beyond the Classroom

### In the Classroom

Instruction is required in the first three years at Anatolia high school, with two hours' instruction weekly in the 7th and 8th grades, and one hour weekly in the 9th. Computer Science is an elective for grades 10-12, where students attain advanced IT proficiency.

### Beyond the Classroom

High school clubs use IT for research, communication, and lay-out/formatting applications. For example, the Internet, Mass Media, and Science and Technology Clubs all use S/W applications available through campus licenses to the entire student body.

The Anatolia English and Greek Debate Clubs, Oratory Club, Group Discussion Club, Forensics Club, Yearbook, and Ecology Club also employ the Internet for research purposes, and use various applications for storing, classifying, and sharing information with classmates and advisors.

## IT at ACT: Supporting Degree Programs and Faculty

In addition to degree and professional training programs in various IT disciplines, Information Technology is woven into teaching methods and a necessary tool for nearly all student learning.

### The ACT Division of Technology offers:

- 2 IT majors (Computer Science, Computer Management Information Systems)
- 2 IT minors (Computer Science - Digital Media & Web Development)
- 3 professional certificate programs (Computer Networking, Multimedia, and Website Development)

*"Our mission in the Anatolia IT Department is to provide the highest-quality services to IT users within the institution. By taking advantage of the latest technology, our students have the opportunity to reach out and embrace key knowledge, and our faculty and staff can improve educational and administrative services. For over fifteen years, we've been witnessing rapid technological developments that have affected academic procedures, and have been carefully selecting the products and services we implement, based on their cost-effectiveness and stability over time, while keeping pace with the latest technological developments. To maintain Anatolia's IT infrastructure and keep improving, we need the additional financial support that will guarantee continuous contact with IT developments, and make it possible for us to acquaint ourselves with the latest IT trends and solutions on an ongoing basis."*

**Christos Kalouptsoglou,**  
ITS Manager, Network/System Administrator

*The mission of the Division of Technology & Science is to offer innovative, leading edge technology programs in computer science and academically sound service courses in the areas of Mathematics, Statistics and Science. As computer science is a rapidly evolving discipline, we continuously adapt our curriculum and facilities to meet the changing demands of the computing profession.*

# Major Steps



Support for the rapid evolution of IT at Anatolia and ACT has come from numerous sources over the past decade. In the last five years, upgrades and innovations in technology-enhanced learning have been supported by grants or donations from:

■ **The Stavros S. Niarchos Technology Center**, funded in 2001-2002, (funded 2001-2002) has two 25-station computer teaching laboratories to support ACT's degree and professional certificate programs, in addition to 19-station multimedia laboratory, a multimedia studio production room, a 10-station networking laboratory, two 25-seat and two 20-seat audio-visual rooms, each equipped with PCs/DVDs/VCRs/ceiling-mounted data show units, and a 48-seat teleconference center.

■ **The Andrew Mellon Foundation**. A 2002 grant enabled ACT to lease a U.S. course management system for online course delivery. Today, around 20% of ACT courses are web-enhanced or supported.

■ Trustee **William Drakos**. A gift in 2005 allowed ACT to:

- **Replace** all non-network hardware located in the ACT new building laboratory
- **Upgrade** multimedia software holdings
- **Increase** network storage and backup capabilities
- **Introduce** a wireless network on part of the ACT campus

In 2005, ACT was named the Cisco Regional Academy for Northern Greece.

ACT is the only regional academy in Northern Greece offering the Cisco Certified Networking Associate program. The CCNA Program is a two course e-learning, web-based program on the principles and practice of designing, building, and maintaining networks capable of supporting any type of organization. The academy program combines instructor-led, online learning with hands-on laboratory exercises where students apply what they learn in class while working on an actual Local Area Network. This program is designed to meet the growing demand for Network specialists. Students who successfully complete the program are eligible to earn Cisco Certified Network Associate certification.



A teleconference in the Stavros S. Niarchos Technology Center

*Technology is a  
moving target,  
in constant rapid development.  
Anatolia needs a permanent  
endowment to insure  
that it will always remain at the  
forefront of advances  
in educational technologies.*

# *An Endowment for Information Technology*

*Anatolia has invested significantly to develop an IT infrastructure that enables us to introduce new programs, as well as to integrate technology and on-line resources into teaching. Rapid developments, not only in the field of computer science but also in teaching methodologies, demand that we further extend our use of technology to all academic disciplines. Such an ambitious goal requires that we continuously maintain and upgrade the Anatolia infrastructure in order to improve our IT services.*

**Professor Panos Vlachos,  
Stavros S. Niarchos Technology  
Center Director**



*Technology is  
costly to purchase,  
maintain,  
upgrade,  
and employ creatively.*