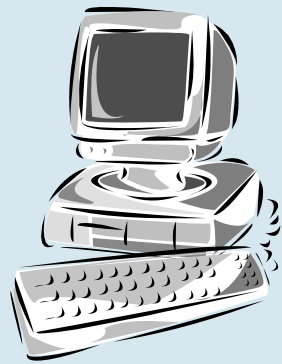




The Yeshiva of Greater Washington



Computer Curriculum

and Resources



Goal of the Computer Curriculum

The goal of the Yeshiva computer curriculum is to prepare students with skills for the technological world in which they will live and work.

Each student who graduates from the Yeshiva will learn computer skills to:

- *accurately touch-type*
- *research*
- *produce professional-looking reports*
- *organize, calculate and chart data*
- *create multimedia presentations*
- *publish a newsletter*

There are two tracks for students —

- **SOFTWARE APPLICATIONS—**
Required and Elective classes—for general knowledge and/or to receive college credit.
- **PROGRAMMING**
Elective classes—for general interest and/or to receive college credit.

Students can take classes from both tracks.

Students can earn CUC (Columbia Union College) college credits with successful completion of upper level classes.

Software Applications Curriculum

Part of our CORE Curriculum—through hands-on lab work and class lecture, these topics provide an understanding of the most commonly used applications for computers in the home and in the workplace.

- **Keyboarding (Touch-Typing)** — Emphasis on accuracy. Speed is achieved through practice.
- **Working with Windows** — General computer use and file management.
- **Research using the Internet**
- **Microsoft Word**—Formatting research papers and business documents such as headers and footers, tables, labels, page numbering, mail merge, and footnotes.
- **Microsoft Excel**—Recording and analyzing data, presenting results and hypotheses through spreadsheets, charts and reports.
- **Microsoft PowerPoint**—Creating and presenting effective multimedia presentations, including creative transitions with sound and animations.
- **Microsoft Publisher**— Designing and producing effective publications such as newsletters, banners, brochures, and flyers.
- **Microsoft Access**—Designing, developing and maintaining a database system; queries, forms, and reports.
- **HTML and web page design**—Designing and developing Web pages.
- **Web 2.0**— Use of emergency Internet technologies, including podcasts, wikis, and blogs.

Programming Curriculum

For students wishing to pursue a more **technical track**, several programming classes are offered as an elective, beginning in Tenth Grade, including:

For students interested in learning about the exciting field of Computer Science:

- **JAVA Programming** A course in computer programming covering fundamental concepts including: variables, data types, control structures (sequential flow, conditional statements, and loops), basic input and output processing, functional decomposition and object-oriented design.
In this course, students create their own computer programs using the **Java** Programming language. Additional education tools such as **Karel J. Robot** are used to introduce object-oriented programming concepts. This course may be useful to the prospective computer science major or Engineering major.
- **Other programming courses** — Class offerings are regularly reviewed and updated to meet the needs and interests of our students.



Our State-of-the-Art Computer Labs

- 1:1 student-to-computer ratio
- LAN (Local Area Network) configured around a Microsoft Windows network with WinVNC.
- Pentium IV computers
- Networked Laser Printing
- Broadband connection to the Internet
- Full Microsoft Office Professional Suite on LAN
- Eclipse—Integrated development environment, used by computer programming classes
- Latest versions of numerous Judaic and secular software programs
- Davka, Bar Ilan Judaic Library, Mavis Beacon Typing Tutor, Learn to Learn, and more

Member of Maryland Education Enterprise Consortium (MEEC)

- Select group of schools in state of Maryland, leveraging affordable access to quality information technology
- Student lab, library, classrooms, administration and teachers have software as needed
- Continual review of available technologies and learning tools to take full advantage of this medium

*Keeping Internet use safe is a major priority

- We block illegal and offensive content with State-of-the-art Internet filter (SurfControl), and Pop-Up blocker (Another IE Popup Killer)
- Required parental permission for Internet and/or Computer Usage
- Students and their parents sign a Computer and Internet Use Policy and Responsibility Agreement.
- Individual User Log-in ID
- Monitored Internet activity
- Automated real-time violation reports sent to the principals

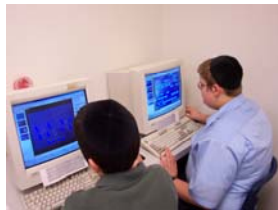
Integrating Technology into the Classroom

The Yeshiva integrates technology into non-computer classes to supplement or enhance educational effectiveness.

- **Ivrit class**—Development of a newsletter b'Ivrit using Microsoft Publisher, Davka, and Internet research techniques. Independent grammar lessons using Dikduk I/II.
- **Science**—Simulated Labs and Experiments, as well as research using the Internet.
- **History**—Creation of projects utilizing Word, PowerPoint, Publisher, and Web 2.0.
- **Business Math**—Development of résumés and cover letters, tracking and analysis of the Stock Market, business simulations, and learning about taxes on the IRS website.



Student learns MS Access independently using Video Professor



THE YESHIVA

OF GREATER WASHINGTON

**For More Information about
our Computer Curriculum
and Resources,
Check out our Website:
www.yeshiva.edu**

**Look On-line to see some projects from our
Middle schoolers from both divisions:
www.geocities.com/ygw8grade**

**Boys School Campus
1216 Arcola Avenue
Silver Spring, Maryland 20902
301-649-7077 phone
301-649-7053 fax**