

**Benedum Foundation Grant
Aries Technology Course Descriptions**

The two courses listed below are covered by the grant and must be taken in sequence:

Semester/Course I

PC Maintenance and Repair: Hardware™: Gives students knowledge and experience in working with power supplies, motherboard components, RAM, expansion cards, printers, monitors, networking equipment, and other computer hardware in non-vender-specific environments.

Semester/Course II

PC Maintenance and Repair: Operating Systems™: Begins by covering DOS and Windows operating system basics, gradually progressing to more complex and “field relevant” skill sets.

The two courses listed below are not covered by the grant but are the normal progression of Aries courses. Students who successfully complete all four courses are considered to be “completers”.

Semester/Course III

Networking Essentials™: A full semester of professional IT training that builds a solid foundation of network administration skills, protocols, the OSI module, LAN design, cabling and connectors, and troubleshooting and maintenance for non-vendor specific environments.

Semester/Course IV

Server Essentials™: Aries Server Essentials is designed to build on the solid foundation of IT knowledge established by Aries courses curricula. The curriculum focuses on server room design and installation, security, maintenance, and network administration.

The remaining courses listed below are additional Aries high and middle school courses that are available for students:

Security Essentials™: Explores security concepts and implementation of security as it applies to LANs and WANs. Topics include cryptography, security standards and protocols, authorization & access methods, infrastructure design, and security on the Internet.

Linux Essentials™: This course prepares students for industry endorsed Linux certification exams while also providing them with a valuable foundation for continued study of this operating system.

Welcome to the Workforce™: A comprehensive, step-by-step approach to finding a job that best suits a person’s skills, background and personality.

PC Technician™: This modified version of the Aries PC Maintenance and Repair course is designed for middle school students to serve as an introduction to the IT field. This course guides student through the basic concepts and technical knowledge necessary for an entry level field technician.

Computer Literacy: A Complete Guide to IC3™: An introduction to general computer hardware and software knowledge and skills, basic networking, the Internet, word processing and desktop publishing, spreadsheet and presentation software and Web design.