Penn State on your resume—it shows.

Information Sciences and Technology Certificate Program

(13 credits)

In the certificate program in information sciences and technology (IST), you can explore critical areas of information technology and information management. You will be introduced to information sciences, software applications, Web development, database management, network administration, and telecommunications systems. Team projects will be focused on developing your analytical thinking and communication skills.
The IST certificate program is delivered on a part-time basis, one course at a time. The credits you earn may be used to satisfy Penn State course requirements in the associate and bachelor’s degree programs in information sciences and technology if you choose to continue.

**Information, People, and Technology**

**IST 110 (3 credits)**
The use, analysis, and design of information systems and technologies to organize, coordinate, and inform human enterprises.

**Organization of Data**

**IST 210 (4 credits)**
Introduction to database concepts, including the storage, manipulation, evaluation, and display of data and related issues. Prerequisite: IST 110.

**Networking and Telecommunications**

**IST 220 (3 credits)**
Introduction to digital network topologies; transmission media, signal modulation, digital packet switching and routing, systems integration, communications management, and security. Prerequisite: IST 110.

**New Media and the Web**

**IST 250 (3 credits)**
Introduction to how the Web uses emerging technologies. Students can acquire a conceptual understanding of constructing websites. Prerequisite: IST 110

**Who Should Attend?**
Do you have formal education in another field but want to enhance your resume with an IST credential? Are you seeking a short term credential to get started in IST or work toward your bachelor’s degree?

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**Certificate Program Benefits**
Certificate programs provide a flexible, convenient, short-term opportunity for professional development, self enhancement, and earning a formal academic credential from Penn State. Certificate program courses can “step up” or apply to academic degrees at Penn State.

**Admission to Certificate Programs**
All courses are open to high school graduates and to those who have earned a GED. There are no prerequisite courses. The courses must be taken in order as a student in a cohort group attending this certificate program. No course transfers will be accepted into this integrated series of customized course on Information Sciences and Technology. No formal application to Penn State is required, but those interested in enrolling must complete a non-degree form.

**Financial Aid**
Information on financial aid, including grants and loans, is available for part-time students enrolled in a credit certificate program.

**Location**

For more information, please contact:
Penn State Wilkes-Barre
Continuing Education
PO Box PSU
Lehman, PA 18627
Phone: 570-675-9253
Fax: 570-675-8308
E-mail: wbce@outreach.psu.edu

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This publication is available in alternative media on request.

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