Abstract: Improvements in construction engineering education result when innovative information technologies are incorporated into academic curricula. Through the use of Internet-based communication technologies, no longer must students physically travel to a construction project site to observe and hear construction operations. This paper discusses two applications of Internet-based, audio and video technologies currently being piloted at Iowa State University and at the University of Calgary for the purpose of bringing live construction projects into the university classroom. Virtual Project Tours have been piloted at Iowa State University in which real-time, video and audio are delivered from active construction projects to a remote classroom via the Internet. The second application to be discussed in this paper, Virtual Supervision, being piloted at the University of Calgary consists of the monitoring and analysis of active construction projects using imagery gathered by web-enabled, fixed digital video cameras of fixed location transmitting video via the Internet. This paper also presents a vision of a globally-networked organization of engineering and construction education institutions each sharing the unique design and building techniques of their respective part of the globe with design and construction students located around the world. This exchange of construction project observations among the institutions will be enabled by the Internet-based applications of virtual project tours and virtual supervision systems described in this paper.