

**Educational Objectives and Program Outcomes  
for the Industrial Technology program in the Technology Department,  
College of Engineering, Computer Science and Technology  
California State University, Los Angeles**

The following describe the characteristics the Cal State L.A. Industrial Technology program is seeking to produce in its graduates in three areas:

- the *knowledge* they will have
- the *skills* they will possess
- the *attitudes* they will hold

**Knowledge**

Educational objective: Industrial Technology graduates will demonstrate a balance of technical and managerial knowledge.

In demonstrating this educational objective, graduates will exhibit the following outcomes:

1. They will have knowledge of science, math and technical management.
2. They will understand the role of technical management in the public and private sector.
3. They will have knowledge of systems and the integration of technologies.
4. They will have knowledge of information technology including its use in a digital enterprise.
5. They will have knowledge of contemporary technology/management issues.

**Skills**

Educational objective: Industrial Technology graduates will demonstrate the skills needed to apply business practices, information technology, and other technical skills necessary to collaborate with, organize, and lead inter-disciplinary teams.

In demonstrating this educational objective, graduates will exhibit the following outcomes:

1. They will be able to apply theories and principles to solve technical and management problems.
2. They will be able to design, test and analyze a system or process to meet desired needs.
3. They will have good written and oral communication and presentation skills.
4. They will be able to exhibit supervisory and team leadership skills.
5. They will be able to collect, analyze and interpret data.
6. They will be able to collaborate within a digital enterprise with a multi-disciplinary project team.
7. They will be able to select and use computer applications software associated with desired needs.

**Attitudes**

Educational objective: Industrial Technology graduates will demonstrate a cooperative and inquisitive spirit that supports the desire to pursue lifelong learning, enables them to adapt to contemporary issues in the workplace, and helps advance the goals of their organization.

In demonstrating this educational objective, graduates will exhibit the following outcomes:

1. They will have an understanding ethical responsibility.
2. They will exhibit professionalism in their area of expertise.
3. They will have a recognition of the need for, and an ability to engage in life-long learning.
4. They will stay current on issues.
5. They will achieve a balance of workplace and personal goals.
6. They will exhibit the desire to adopt emerging technologies to improve their area of expertise.
7. They will support and promote the goals of their organization.