

Educational Objectives and Program Outcomes

for the MA in Industrial and Technical Studies Program in the Technology Department, College of Engineering, Computer Science and Technology California State University, Los Angeles

The following describe the characteristics the MA program in Industrial and Technical Studies at Cal State L.A. 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 and Technical Studies 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 conducting independent research.
2. They will understand the role of technical management in the public and private sectors.
3. They will have knowledge of systems and the integration of technologies.
4. They will have knowledge of emerging industries in an evolving society.
5. They will have knowledge of contemporary technology/management issues.
6. They will have knowledge of supervising and motivating employees in their organizations.

Skills

Educational objective: Industrial and Technical Studies 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 solve problems objectively using research skills.

Attitudes

Educational objective: Industrial and Technical Studies 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 organizations.

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

1. They will have an understanding of ethical responsibility.
2. They will exhibit professionalism in their area of expertise.
3. They will have recognition of the need for, and an ability to engage in life-long learning.
4. They will stay current on issues.
5. They will exhibit leadership roles in applying technology to their organizations.
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 organizations.