

INDUSTRIAL TECHNOLOGY ASSOCIATE IN SCIENCE DEGREE

Division: Technology and Engineering

PROGRAM CODE: 2S13207

The **Industrial Technology Associate in Science Degree** is designed to give students a broad understanding of communications, business finance, graphics, construction, manufacturing, and transportation systems, as well as many other subjects that are found in today's industry. Students are given instructions in various skill areas that can be applied directly in the workforce, such as in the manufacturing of products; designing of products with computer-aided design (CAD) software; constructions of buildings; repairing of automobiles; printing; photography; and other communication media skills for various TV, film, internet, print shops, and entertainment industries. A variety of businesses and industries are in need of individuals who have the knowledge and flexibility to learn, implement and manage new technology within complex business environments. Schools need well prepared industrial and technology education teachers to help educate and guide young men and women into high technology careers. On the business and industry side, Industrial Technology majors assume roles as "Industrial Technologists" in a wide variety of industrial and business settings and they understand managerial concepts and principles. Common to all Industrial Technologists is the focus on continuous improvement in the areas of productivity and quality. Technologists apply management theory and practice with technical skills to solve problems. Students typically go on to a 4 year institution to further their studies in specialties related to industry needs. At least one half of the units toward the degree must be completed at Fullerton College. This degree requires a total of 18-21.5 units.

Code	Title	Units
Required Courses (18-21.5 units):		18-21.5
ACCT 100 F	Small Business Accounting	3
AUTO 131 F	Automotive Fundamentals	4.5
BUS 151 F	Business Mathematics	3
CRTV 118 F	Introduction to Radio, TV and Film	3
CSTR 100 F	Residential Construction	4
DRAF 171 F	Fundamentals of Drafting	2
MACH 116 F	Machine Tools	2
PHOT 101 F	Introduction to Photography	3
PRNT 101 F	Introduction to Printing	3
TECH 127 F	Industrial Safety	2
WELD 100 F	Introduction to Welding (formerly WELD 121AF)	3
Total Units		18-21.5

Outcome 1: Describe occupations typically found in each industry/technical area such as manufacturing, automotive, photography, construction, welding, printing and drafting.

Outcome 2: Apply theories and principles to solve technical and management problems.

Outcome 3: Design, test and analyze a system or process to meet desired needs.

Outcome 4: Apply good written, oral communication and presentation skills.

Outcome 5: Collect and interpret data to analyze and solve problems.

Outcome 6: Select and use computer applications software.

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