

APPLIED TECHNOLOGY

Program Description

Humboldt State University is one of the California State University campuses offering a degree in Industrial Technology. The degree is built to serve the needs of the following students: 1) those who wish to pursue a career in engineering or industry management; 2) those who wish to start a business; 3) those desiring a technical degree leading to a single subject credential for teaching in the public schools; 4) those who wish to minor in the subject; or 4) those who wish to take a single class.

Career opportunities are extensive and varied, including engineering, teaching, management, or entrepreneurship. *It is an area for a person who enjoys working with ideas, people, processes, machines, and products.* In addition, the growth of research and development in applied areas such as construction, manufacturing, biotechnology, medical technology, energy, and electronics should increase the demand for Applied Technology graduates.

A major factor influencing success is preparation. Students gain additional educational and technical background by developing greater awareness of technological advances in applied contexts. Specialty options within the major allow students interested in a specific area to investigate, develop skills, and obtain experiences to be better prepared for work. In general, the Applied Technology student has advantages in the job market due to a combination of both theoretical and practical knowledge.

Students transferring to Humboldt State from a community college should contact the Department Chairperson as soon as possible for advising.

For More Information

Web Home Page: <http://www.humboldt.edu/~apptech>
Department of Applied Technology (707) 826-4281
Admissions Office toll free (866) 850-9556, local 826-4402
Career Center (707) 826-3341

Degrees and Options

Bachelor of Science in Industrial Technology
Operations & Mfg. Mgmt.
Construction Mgmt.
Industrial Design
Technology Mgmt.
Appropriate Technology

Minor

4th Year Blended Teaching Credential
Single Subject

Statistics

4 Faculty
73 Majors

Career Possibilities

Construction Management
Contracting
Engineering Design
Industrial Sales
Industrial Training
Inspection and Testing
Instrumentation
Manufacturing Engineering
Materials Analysis
Scheduling
Operations Analysis
Operations Management
Product Development
Production Planning
Production Supervision
Project Management
Quality Assurance
Teaching
Technical Field Rep
Technical Illustration
Technical Writing

Some of these occupations may require additional or specialized coursework.

2006-07 academic year

learning to make a difference

HUMBOLDT STATE UNIVERSITY



REQUIREMENTS

B. S. Degree In Industrial Technology

GENERAL EDUCATION See catalog for specific requirements.

INDUSTRIAL TECHNOLOGY CORE REQUIREMENTS:

IT	104*	Beginning Wood
IT	140	Technical Drawing & CAD
IT	151	Electricity and Electronics
IT	230	Basic Machine Tool
IT	232	Technical Writing or JMC 232 Technical Writing
IT	250	Industrial Health and Safety
IT	308*	Socio-Technological Thinking Processes
IT	311	Industrial Materials and Processes
IT	371	Introduction to Power and Energy
IT	389	Industry Practicum
IT	475	Project Management Fundamentals
IT	492	Senior Project or IT 490 Senior Thesis
IT	493	Statistical Process Control and Quality

MANUFACTURING AND OPERATIONS MANAGEMENT OPTION

IT	251	Industrial Control Electronics
IT	290	Mechanical Systems
IT	333	Advanced Manufacturing Processes
IT	374	Operations Management
IT	430	Computer Numerical Control
IT	494	Production Operations Management

CONSTRUCTION MANAGEMENT OPTION

IT	225	Construction Systems
IT	265	Construction Management Methods
IT	335	Construction Law
IT	340	Architectural Design
IT	420	Advanced Construction Materials
IT	425	Estimating and Scheduling

INDUSTRIAL DESIGN OPTION

ART	105C*	Color and Design
ART	108*	Beginning Graphic Design
IT	349	Principles of Industrial Design
IT	345	Advanced Computer-Aided Design
IT	391	Design Ergonomics
IT	431	Design Prototyping and CAM

TECHNOLOGY MANAGEMENT OPTION

See the Business Administration Minor in the HSU catalog
(Note: completion of constitutes eligibility for a Minor in Business Administration and satisfies the prerequisites for the MBA program)

APPROPRIATE TECHNOLOGY OPTION

See the Appropriate Technology Minor in the HSU catalog
(Note: completion of constitutes eligibility for a Minor in Appropriate Technology)

TECHNOLOGY EDUCATION OPTION

(Blended Credential Program)

Before applying to the secondary education credential program, students must meet the prerequisite of 45 hours early field experience or enroll in SED 210/410. Students complete the required classroom experience after graduation. Teaching option requirements may be met with the completion of an approved community college certificate program that has been articulated with the Applied Technology Department. Administrative Code, Title V, may require additional courses.

Required Credential Courses:

SED	711	Nonviolent Crisis Intervention
SED	714	Educational Psychology
SED	712	Teaching and Learning in Schools
SED	713	Classroom Management
SED	715	Multicultural Education
SED	730	Bilingual ELD Theory & Methods
SED	736	Instruction: Industrial Technology
SED	743	Content Area Literacy
SED	762	Supervised Fieldwork in Student Teaching

Approved Electives (Required for Tech Ed Option)

IT	110	Contemporary Trends in Technology
IT	222	Technological Systems
IT	349	Principles of Industrial Design

REQUIRED SUPPORT COURSES

CIS	100*	Critical Thinking Computers or equiv.
CHEM	107*	Fundamentals of Chemistry
MATH	115	Algebra and Elementary Functions or Math Code 50
PHYX	106*	College Physics: Mechanics & Heat
STAT	108*	Elementary Statistics

Minor In Industrial Technology

A minimum of 18 Technology units required, at least nine of which must be upper division. A maximum of two units independent study may be applied to the minor.

Requirements subject to change and superseded by most recent catalog.

*Indicates courses that also meet General Education requirements.