Degree Benefits
Technology management is a field of study designed to prepare technically competent industrial technologists and management professionals for employment in business, industry and government. The career focus for graduates of the technology management program is industrial and management supervision. The Association of Technology Management and Applied Engineering (formerly known as NAIT) has determined that certification in technology management requires an educational background in production/operations management, quality control, safety management, and production and inventory control. The technology management program at Cal U includes experiences in these areas, plus cost analysis, manufacturing operations, project management and computer integrated manufacturing. The bachelor’s degree in technology management is an upper-division program, which requires completion of a related associate degree.

Job Options
Opportunities for employment in the field of technology management are diverse. Graduates find challenging and rewarding careers in all geographical areas of the United States as CAD designers, engineering technicians, production supervisors, purchasing agents, industrial researchers, safety managers, manufacturing technicians, system analysts, quality control engineers, CNC machine programmers, robotic technicians, industrial trainers and sales representatives, and many other industrial and manufacturing fields. The program has a 94 percent placement rate with average starting salaries of over $30,000. The average annual wage rate for industrial technology positions in southwestern Pennsylvania is over $58,000 per year. The Southwestern Pennsylvania Industrial Resource Center estimates that there are more than 4,100 industrial firms in the region that account for more than 196,000 manufacturing jobs. Pittsburgh was rated the top location in the country for two years in a row for factory automation equipment and service jobs. A recent national study of manufacturing executives found that management-level positions are expected to increase by 19 percent to 36 percent.

Program Objectives
The program that focuses on industrial and manufacturing supervision and management. Students who wish to pursue the bachelor’s degree in technology management must first complete an approved associate degree in a technology-related area. The technology management program provides students with experiences in industrial and manufacturing processes that will help them to understand problems they may face in industrial and manufacturing environments. The foundational and advanced technological background developed at the associate degree level is coupled with industrial managerial courses in project management, production analysis, cost estimating and inventory control to prepare technology management students for many attractive professional job opportunities in a variety of industrial enterprises.

National Accreditation
The National Association of Industrial Technology (NAIT) has changed its name to the Association of Technology Management and Applied Engineering (ATMAE), 1390 Eisenhower Place, Ann Arbor, MI 48108, Phone: 734-677-5120. Atmae@atmae.org. Cal U’s technology management program was reaccredited in 2009 for another six years.

Admission Information
The program, so admission to the program is open only to students who have completed an approved technology-based associate degree. Students who have completed an approved technology-based associate degree of 60 credits or more would enter the technology management program as juniors and are required to complete an additional 60 credits. Cal U offers the following associate degrees, which are approved as prerequisites for the upper-division bachelor degree in technology management: computer engineering technology, computer science technology, electrical engineering technology, industrial technology and robotics engineering technology. Associate degrees from other universities or community colleges eligible as prerequisites include those related to architecture, automation, aviation maintenance, CAD, civil technology, CNC, computer technology, construction, drafting, electronics, engineering technology, environmental technology, graphics, industrial design, machine, manufacturing, mechanical technology, production, robotics, welding and others. For more information on eligible programs, contact the department chair, Joseph Schickel at schickel@calu.edu or call 724-938-4085.

University Resources
Facilities for technology management include CADD labs, a materials testing lab, an automated manufacturing center, a metrology lab and a machine lab. Two CAD/Drafting Labs feature networked PC’s with Internet access, AutoCAD 2010©, Mechanical Desktop©, Architectural Desktop©, Solid Works©, Catia© for engineering design and solid modeling, and ANSYS© finite element analysis software. The Automated Manufacturing Center in the Eberly Center has a new HAAS© VF-O CNC vertical machining center, a DAEWOO Lynx 200© turning center, two Denford© CNC milling machines, two Denford© CNC lathes, a HAAS CNC stimulator and MasterCAM© computer-aided manufacturing software. Computer labs in the Eberly Center contain several software packages that support various technology management courses in production analysis, quality control, cost estimating and project management.
Curriculum
California University believes that a liberal education is essential for all students, regardless of the profession for which they may be preparing. The goals, objectives and courses that comprise our general education program are designed to provide students with the knowledge, understanding and skill they will need to pursue their careers and lead productive and rewarding lives.

Note
The policies and procedures described here may be reviewed and revised as the need arises. This fact sheet should be used as an information guide. For details on current policies and procedures, contact the chair of the department.

Program Contact Information
Contact the Department of Applied Engineering and Technology by phone at 724-938-4085.

Junior Year
First Semester .................................................................15 credits
ITE 305 Industrial Safety .................................................3 crs.
ITE 342 Quality Planning & Analysis .................................3 crs.
ITE 375 Principles of Production ......................................3 crs.
General Education .........................................................3 crs.
Elective ..............................................................................3 crs.

Second Semester .................................................................15 credits
ITE 376 Technical Supervision ...........................................3 crs.
ITE 385 Industrial Cost Estimating ....................................3 crs.
ITE 420 Production Analysis ............................................3 crs.
General Education .........................................................3 crs.
Elective ..............................................................................3 crs.

Senior Year
Third Semester .................................................................15 credits
ITE 460 Principles of Manufacturing .................................3 crs.
ITE 461 Supply Chain Fundamentals .................................3 crs.
ITE 471 Project Management ...........................................3 crs.
General Education .........................................................3 crs.
Elective ..............................................................................3 crs.

Fourth Semester .................................................................15 credits
ITE 462 Scheduling & Planning .........................................3 crs.
ITE 476 Lean Enterprise ..................................................3 crs.
ITE 481 Concepts & Issues in ITE .................................3 crs.
General Education .........................................................3 crs.
Elective ..............................................................................3 crs.

FINANCIAL AID
For information on student loans and undergraduate scholarships, visit www.calu.edu or call 1-888-412-0479.

Questions
About Admissions?
Office of Admissions
California University of Pennsylvania
250 University Ave.
California, PA 15419-1394

Phone: 724-938-4404
Toll-free: 888-412-0479
Fax: 724-938-4564
E-mail: inquiry@calu.edu

www.calu.edu
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