Program Objectives for the Nanofabrication Manufacturing Technology (NMT) Concentration

To pursue the NMT concentration, students must have completed an NMT-related associate degree. As reflected in the Technology Management recommended schedule below, the only difference between the general Technology Management bachelor degree and the NMT concentration appears in the final semester, when NMT concentration students would take NMT 495, in place of three credits of Electives and three credits of General Education courses.

National Accreditation

The bachelor degree in Technology Management is an upper-division program, so admission to the program is open only to students who have completed an approved technology-based associate degree with a Nanomanufacturing concentration. Students, who have completed an approved Nanomanufacturing technology-based associate degree of 60 credits, or more, would enter the Technology Management Nanomanufacturing option bachelor degree program as juniors and would be required to complete an additional 60 credits. CALU offers an associate degree in Industrial Technology Nanofabrication Manufacturing Technology option. Associate degrees from other universities or community colleges, that include the Nanomanufacturing capstone semester, are eligible to complete their bachelor degree at CALU. For more information on eligible programs, contact the department chair: kallis@calu.edu or by calling 724-938-4085.

Admission Information

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University Resources

Facilities for Industrial Technology include: CADD Labs, Materials Testing Lab, Automated Manufacturing Center, Metrology Lab, and 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 have several software packages that support various Industrial Technology courses in production analysis, quality control, cost estimating and project management.

BACHELOR OF SCIENCE

TECHNOLOGY MANAGEMENT – 120 CREDITS

The following eight-semester schedule of courses provides a recommended framework for completing this program of study in four years. To ensure that they are making satisfactory academic progress, students should consult with their faculty advisor, ensure that they complete necessary prerequisites and required courses in sequence and complete a minimum of 15 credits each semester.
# BIOLOGY: NANOTECHNOLOGY CONCENTRATION

## Junior Year

**First Semester** ................................................................. 15 credits
- ITE 305 OSHA General Industrial Safety ....................................3 crs.
- ITE 342 Quality Plan & Analysis ..............................................3 crs.
- ITE 375 Principles of Production ............................................3 crs.
- General Education Course ...................................................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 Prod & Invent Control ..............................................3 crs.
- ITE 471 Project Management ...............................................3 crs.
- General Education ................................................................3 crs.
- Elective ...........................................................................3 crs.

**Fourth Semester** ............................................................... 15 credits
- ITE 481 Concepts & Issues in ITE .........................................3 crs.
- NMT 495 Nano Manufacturing Internship ..........................6 crs.
- General Education ................................................................3 crs.
- Elective ...........................................................................3 crs.

*Program Contact Information*

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

*Department Website*

www.calu.edu/academics/colleges/ebery/aet

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### ABOUT US

California University of Pennsylvania is a proud member of the Pennsylvania State System of Higher Education. Located in the borough of California, just 35 miles from Pittsburgh, Cal U serves about 8,200 undergraduate and graduate students.

- Cal U's main campus houses academic buildings, dining and recreation facilities, and six suite-style residence halls.
- Cal U's upper campus includes the Vulcan Village apartments, athletic facilities at Roadman Park, and space for student meetings and outdoor recreation at SAI Farm.
- Cal U Global Online is the University’s virtual campus, offering degree and certificate programs 100% online.

### 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

### FINANCIAL AID

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

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California University of Pennsylvania is an academic community dedicated to the ideals of justice, fairness and equal opportunity for all. In compliance with federal and state laws, the University is committed to providing equal educational and employment opportunities for all persons without regard to race, color, sex, religion, national origin, age, disability, ancestry, sexual orientation or status as a disabled or Vietnam era veteran. The University will not tolerate racial, ethnic or sexual discrimination. Sexual harassment is considered by law to be a form of sexual discrimination and is, therefore, unacceptable. Direct equal opportunity and affirmative action inquiries or complaints to the Special Assistant to the President for Equal Employment and Educational Opportunity (EEO), Office of Social Equity, South Hall 112, 724-938-4014. Direct inquiries regarding services or facilities accessibility to the ADA/504 Compliance Officer, Office of Student Development and Services, G 52 Carter Hall, 724-938 4065. Direct Title IX inquiries to the Senior Women’s Administrator/Title IX Coordinator, Department of Athletics, Hamer Hall 248, 724 938-4351.

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