ARTICULATION AGREEMENT
BETWEEN
COMMUNITY COLLEGE OF ALLEGHEY COUNTY
AND
CALIFORNIA UNIVERSITY OF PENNSYLVANIA

THIS AGREEMENT, is made by and between, Community College of Allegheny County, located in Allegheny County Pennsylvania, hereinafter called "CCAC", and California University of Pennsylvania, located in Washington County Pennsylvania, hereinafter called "CAL U".

CCAC and CAL U acknowledge their shared mission to provide quality higher education programs, which meet the needs of the region and provide a workforce of highly trained residents.

The primary purpose of this agreement is to enhance the transferability of students and their credits between CCAC's Automotive Technology Associate of Science, Architectural Drafting and Design Associate of Science Degree, Computer Aided Drafting Associate of Science Degree, Electronic Engineering Technology Associate of Science Degree, Engineering Science Associate of Science Degree, Engineering Technology Associate of Science Degree, Manufacturing Technology Associate of Science Degree, Mathematics and Science Associate of Science Degree, Mechanical Drafting and Design Technology Associate of Science Degree, Mechatronics Technology Associate of Science Degree, Nanotechnology Associate of Science Degree and the Welding Technology Associate of Science into CAL U's Technology Management Bachelor of Science Degree. The CCAC Associate Degrees will qualify the student for full junior standing upon admission to Cal U. Student must provide transcript(s) from all institutions attended for review. A secondary purpose is to provide faculty and administration of both institutions with more precise guidelines for advising students interested in pursuing a Technology Management Bachelor of Science Degree.

This agreement does not exclude students from transferring to majors other than Technology Management. Exhibit A, consisting of eight (8) pages, attached hereto and incorporated herein, outlines the courses that will be accepted from CCAC. Exhibits B.1-B.12, consisting of twelve (12) pages, attached hereto and incorporated herein, outlines the courses necessary for the Technology Management Bachelor of Science from CAL U.

I. MUTUAL TERMS AND CONDITIONS

    a. Academic Policies and Requirements. Cal U accepts credits from CCAC in accordance with the State System Board of Governor's Policy 1999-01: Student Transfer Policy. - The transfer of grades below a "C" will be reviewed in the same manner as the grading policy of native Cal U students so long as the student has earned the associate degree with an overall GPA of 2.00. Cal U accepts and applies credits from CCAC as outlined in the attached EXHIBITS. Cal U Graduation Residency Requirements include 30 of the last 60 credits must be completed at Cal U and 50 percent of the major coursework requirements must be from a State System university as part of

the 120 credit baccalaureate degree requirements. Specific details are outlined in the attached EXHIBITS as it relates to the various associate and baccalaureate degree pathways and in ensuring the academic standards necessary for awarding of the baccalaureate degree.
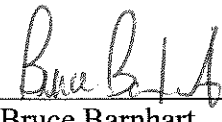
b. *Term of Agreement.* The term of this Agreement shall be five years from the date of execution and will be reviewed annually for accuracy. This Agreement may not exceed a period of five (5) years.

c. *Termination of Agreement.* Either party may terminate this Agreement for any reason with ninety (90) days' notice. In the event of a substantial breach, either party may terminate this agreement upon the occurrence of the breach by written notice that may be less than 90 days.

d. *Nondiscrimination.* The parties agree to continue their respective policies of nondiscrimination and related procedures to insure that students enrolled at Cal U are afforded the protections of Title VI of the Civil Rights Act of 1964 in regard to sex, age, race, color, creed, national origin, Title IX of the Education Amendments of 1972 and other applicable laws, as well as the provisions of Section 504 of the Rehabilitation Act of 1973 (as amended) and the Americans with Disabilities Act (ADA) of 1990. CCAC agrees to cooperate with the school in its investigation of claims of discrimination or harassment.

e. *Interpretation of the Agreement.* The laws of the Commonwealth of Pennsylvania shall govern this Agreement.

f. *Modification of Agreement.* This Agreement shall only be modified in writing with the same formality as the original Agreement.

g. *Relationship of Parties.* The relationship between the parties to this Agreement to each other is that of independent contractors. The relationship of the parties to this contract to each other shall not be construed to constitute a partnership, joint venture or any other relationship, other than that of independent contractors.

h. *Liability.* Neither of the parties shall assume any liabilities to each other. As to liability to each other or death to persons, or damages to property, the parties do not waive any defense as a result of entering into this contract. This provision shall not be construed to limit the Commonwealth's rights, claims or defenses which arise as a matter of law pursuant to any provisions of this contract. This provision shall not be construed to limit the sovereign immunity of the Commonwealth or of the State System of Higher Education or the University.

i. *Entire Agreement.* This Agreement represents the entire understanding between the parties. No other prior or contemporaneous oral or written understandings or promises exist in regard to this relationship.

IN WITNESS WHEREOF, the authorized representatives of the parties have executed this Agreement as of the final date indicated below.

Community College of Allegheny County: California University of Pennsylvania:
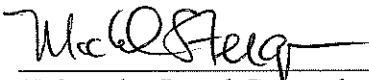
_____ _____
Stuart T. Blacklaw   Bruce Barnhart
Provost/ Executive Vice President   Provost and Vice President for
for Academic and Student Affairs   Academic Affairs

Reviewed and approved as to form and legality:

_____
University Legal Counsel

3-9-2018
_____
Date of final signature

EXHIBIT A

Community College of Allegheny County   **California University of Pennsylvania**

Automotive Technology Associate of Science-Please also see Exhibit B.1

General Education Courses:
AS Degree in Automotive Technology   GEE 162 General Education Electives 27 cr.

Discipline Specific Concentration:
AS Degree in Automotive Technology   Required Major Courses   27 cr.

Free Electives:
AS Degree in Automotive Technology   Free Electives   14-15 cr.
                                            Total credits: 68-69 cr.

Architectural Drafting & Design Associate of Science-Please also see Exhibit B.2

General Education Courses:
*AS Degree in Architectural Drafting and Design   GEE 162 General Education Electives 33 cr.

Discipline Specific Concentration:
AS Degree in Architectural Drafting and Design   Required Major Courses   27 cr.

Free Electives:
AS Degree in Architectural Drafting and Design   Free Electives   4 cr.
                                                  Total credits: 64 cr.

Please Note:
*-It is recommended that ECO 103 be taken as a Social Science Elective to fulfill the three credit Social
Science requirement for Cal U's General Education.

Computer Aided Drafting & Design Associate of Science-Please also see Exhibit B.2

General Education Courses:
*AS Degree in Computer Aided Drafting and Design   GEE 162 General Education Electives 33 cr.

Discipline Specific Concentration:
AS Degree in Computer Aided Drafting and Design   Required Major Courses   27 cr.

Free Electives:
AS Degree in Computer Aided Drafting and Design   Free Electives   2-7 cr.
                                                   Total credits: 62-65 cr.

Please Note:
*-It is recommended that ECO 103 be taken as a Social Science Elective to fulfill the three credit Social
Science requirement for Cal U's General Education.

Electronic Engineering Technology Associate of Science-Please also see Exhibit B.4

General Education Courses:
*AS Degree in Electronic Engineering Technology   GEE 162 General Education Electives 33 cr.

Discipline Specific Concentration:
AS Degree in Electronic Engineering Technology   Required Major Courses   27 cr.

Free Electives:
AS Degree in Electronic Engineering Technology   Free Electives   9-10 cr.

                                                        Total credits: 69-70 cr.

Please Note:
*-It is recommended that ECO 103 be taken as a Social Science Elective to fulfill the three credit Social Science requirement for Cal U's General Education.

Engineering Science Associate of Science-Please also see Exhibit B.5

General Education Courses:
*AS Degree in Electronic Engineering Technology   GEE 162 General Education Electives 33 cr.

Discipline Specific Concentration:
AS Degree in Electronic Engineering Technology   Required Major Courses   27 cr.

Free Electives:
AS Degree in Electronic Engineering Technology   Free Electives   4-9 cr.

                                                        Total credits: 64-69 cr.

Please Note:
-ECO 103 is recommended for a Social Science Elective

Engineering Technology Associate of Science-Please also see Exhibit B.6

General Education Courses:
*AS Degree in Electronic Engineering Technology   GEE 162 General Education Electives 33 cr.

Discipline Specific Concentration:
AS Degree in Electronic Engineering Technology   Required Major Courses   27 cr.

Free Electives:
AS Degree in Electronic Engineering Technology   Free Electives   3 cr.

                                                        Total credits: 63 cr.

Please Note:
-ECO 103 is recommended for a Social Science Elective

Manufacturing Technology Associate of Science-Please also see Exhibit B.7

General Education Courses:
*AS Degree in Manufacturing Technology   GEE 162 General Education Electives 33 cr.

Discipline Specific Concentration:
AS Degree in Manufacturing Technology   Required Major Courses   27 cr.

Free Electives:
AS Degree in Manufacturing Technology   Free Electives   2 cr.
                                                                Total credits: 62 cr.

Please Note:
-ECO 103 is recommended for a Social Science Elective

Math and Science Associate of Science-Please also see Exhibit B.8

General Education Courses:
*AS Degree in Math and Science   GEE 162 General Education Electives 33 cr.

Discipline Specific Concentration:
AS Degree in Math and Science   Required Major Courses   27 cr.

Free Electives:
AS Degree in Math and Science   Free Electives   0-10 cr.
                                                                Total credits: 60-70 cr.

Please Note:
*-It is recommended that ECO 103 be taken as a Social Science Elective to fulfill the three credit Social Science requirement for Cal U's General Education.
*-Students may opt to take a Health and Wellness, Ethics & Multicultural Awareness or Fine Arts as General Electives

Mechanical Drafting and Design Technology Associate of Science-Please also see Exhibit B.9

General Education Courses:
*AS Degree in Mechanical Drafting and Design Technology   GEE 162 General Education Electives 33 cr.

Discipline Specific Concentration:
AS Degree in Mechanical Drafting and Design Technology   Required Major Courses   27 cr.

Free Electives:

AS Degree in Mechanical Drafting and Design Technology	Free Electives	8 cr.
	Total credits:	68 cr.

Please Note:
-*-It is recommended that ECO 103 be taken as a Social Science Elective to fulfill the three credit Social Science requirement for Cal U's General Education.

Mechatronics Technology Associate of Science-Please also see Exhibit B.10

General Education Courses:
AS Degree in Mechatronics Technology   GEE 162 General Education Electives 27 cr.

Discipline Specific Concentration:
AS Degree in Mechatronics Technology   Required Major Courses   27 cr.

Free Electives:

AS Degree in Mechatronics Technology	Free Electives	6-10 cr.
	Total credits:	60-64 cr.

Nanotechnology Associate of Science-Please also see Exhibit B.11

General Education Courses:
*AS Degree in Nanotechnology Technology   GEE 162 General Education Electives 33 cr.

Discipline Specific Concentration:
AS Degree in Nanotechnology Technology   Required Major Courses   27 cr.

Free Electives:

AS Degree in Nanotechnology Technology	Free Electives	9 cr.
	Total credits:	69 cr.

Please Note:
*-It is recommended that ECO 103 be taken as a Social Science Elective to fulfill the three credit Social Science requirement for Cal U's General Education.

Welding Technology Associate of Science-Please also see Exhibit B.12

General Education Courses:
*AS Degree in Welding Technology   GEE 162 General Education Electives 27 cr.

Discipline Specific Concentration:
AS Degree in Welding Technology   Required Major Courses   27 cr.

Free Electives:

AS Degree in Welding Technology	Free Electives	6 cr.
	Total credits:	60 cr.

Please Note:

*-Students may opt to take a Social Science (ECO 103), Health and Wellness or a Fine Arts as General Electives

Residency Policy: To earn a California University of PA degree, 30 of the last 60 credits must be taken from Cal U. In addition, students will take at least 50% of credits required for the Major from a PASSHE university. The degree-granting University may require up to a maximum of 50% of the Major credits. This is in accordance with PASSHE's academic residency policy and related Board of Governors' policies.

California University of Pennsylvania

Bachelor of Science
Eberly College of Science & Technology
Major: Technology Management
Major Code: 7122

Credits Required: 120
Concentration: None

Required Minor: None
Required Minor Code: None

General Education (30 crs AS/12 crs BS)

Building a Sense of Community (1 credit)

   From AS Degree   **CCAC**

Composition (3 credits)

   From AS Degree   **CCAC**

Public Speaking (3 credits)

   From AS Degree   **CCAC**

Mathematics and Quantitative Literacy (3 credits)

   From AS Degree   **CCAC**

Health and Wellness (3 credits)

   Any Health and Wellness Course (3 credits)

Technological Literacy (3 credits)

   From AS Degree   **CCAC**

Humanities (3 credits)

   Any Humanities Course (3 credits)

Fine Arts (3 credits)

   Any Fine Arts Course (3 credits)

Natural Sciences (4 credits)

   From AS Degree   **CCAC**

Social Sciences (3 credits)

   ECO 201 Microeconomics (3 credits)

General Education Options (13 credits)

   Ethics & Multicultural Awareness (3 crs)

   From AS Degree (10 credits)   **CCAC**

Additional Major Requirements

(Not counted toward the General Education requirements)

Special Experience Course (1 course required)

   ITE 471 Project Management

Upper-Division Writing Component Courses (2 courses required)

   ITE 420 Production Analysis

   ITE 481 Concepts & Issues in Technology Mgmt

Laboratory Course (1 course required)

   From AS Degree   **CCAC**

Program Requirements

Required Major Courses (27 crs AS-CCAC/33 crs BS)

   ITE 305 OSHA General Industrial Safety (3 credits)

   ITE 342 Quality Planning & Analysis (3 crs)

   ITE 375 Principles of Production (3 crs)

   ITE 376 Technical Supervision (3 crs)

   ITE 385 Industrial Cost Estimating (3 crs)

   ITE 420 Production Analysis (3 crs)

   ITE 461 Supply Chain Fundamentals (3 crs)

   ITE 471 Project Management (3 crs)

   ITE 481 Concepts & Issues in Technology Mgmt (3 crs)

   ITE499 Research Project (6 crs)

Required Related Courses (0 credits)

   None

Related Electives (0 credits)

   None

Free Electives (18 credits)

   From AS degree (14-15 credits) CCAC

   Student Selected (3 credits)

   Student Selected (3 credits)

   Student Selected (3 credits)

   Student Selected (3 credits)

   Student Selected (3 credits)

Program Notes:

Of the 60 credits total at least 42 credits of advanced coursework (defined as any course numbered 200 or above with at least one prerequisite course) are required.

Admission to the Technology Management program requires an Associate of Science (AS) degree in a Technology Management related area (60 credits maximum) OR admission via an Articulation Agreement; 27 of those credits will be applied to General Education, 27 credits will be applied to Major requirements, and 6 credits will be applied to Electives. Agreements dictate credit placement. Graduates of associate of applied science degree programs qualify for admission if they have completed 6 credits of math (algebra & statistics preferred), quality control, & physics. Any of these courses not completed at the associate degree level must be completed at the bachelor degree level as Electives or extra courses.

Six credits of ITE495 Internship may be taken as an alternative to the ITE499 Research Project

California University of Pennsylvania

Bachelor of Science
Eberly College of Science & Technology
Major: Technology Management
Major Code: 7122

Credits Required: 120
Concentration: None

Required Minor: None
Required Minor Code: None

General Education (30 crs AS/12 crs BS)

Building a Sense of Community (1 credit)

From AS Degree	**CCAC**

Composition (3 credits)

From AS Degree	**CCAC**

Public Speaking (3 credits)

From AS Degree	**CCAC**

Mathematics and Quantitative Literacy (3 credits)

From AS Degree	**CCAC**

Health and Wellness (3 credits)

Any Health and Wellness Course (3 credits)

Technological Literacy (3 credits)

From AS Degree	**CCAC**

Humanities (3 credits)

Any Humanities Course (3 credits)	**CCAC**

Fine Arts (3 credits)

Any Fine Arts Course (3 credits)

Natural Sciences (4 credits)

From AS Degree	**CCAC**

Social Sciences (3 credits)

ECO 103 Microeconomics (3 credits)	**CCAC**

General Education Options (13 credits)

Ethics & Multicultural Awareness (3 crs)

From AS Degree (10 credits)	**CCAC**

Additional Major Requirements

(Not counted toward the General Education requirements)

Special Experience Course (1 course required)

ITE 471 Project Management

Upper-Division Writing Component Courses (2 courses required)

ITE 420 Production Analysis

ITE 481 Concepts & Issues in Technology Mgmt

Laboratory Course (1 course required)

From AS Degree	**CCAC**

Program Requirements

Required Major Courses (27 crs AS-CCAC/33 crs BS)

ITE 305 OSHA General Industrial Safety (3 credits)
ITE 342 Quality Planning & Analysis (3 crs)
ITE 375 Principles of Production (3 crs)
ITE 376 Technical Supervision (3 crs)
ITE 385 Industrial Cost Estimating (3 crs)
ITE 420 Production Analysis (3 crs)
ITE 461 Supply Chain Fundamentals (3 crs)
ITE 471 Project Management (3 crs)
ITE 481 Concepts & Issues in Technology Mgmt (3 crs)
ITE499 Research Project (6 crs)

Required Related Courses (0 credits)

None

Related Electives (0 credits)

None

Free Electives (18 credits)

From AS degree (4credits)	**CCAC**

Student Selected (3 credits)
Student Selected (3 credits)
Student Selected (3 credits)
Student Selected (3 credits)
Student Selected (3 credits)

Program Notes:

Of the 60 credits total at least 42 credits of advanced coursework (defined as any course numbered 200 or above with at least one prerequisite course) are required.

Admission to the Technology Management program requires an Associate of Science (AS) degree in a Technology Management related area (60 credits maximum) OR admission via an Articulation Agreement; 27 of those credits will be applied to General Education, 27 credits will be applied to Major requirements, and 6 credits will be applied to Electives. Agreements dictate credit placement.

Graduates of associate of applied science degree programs qualify for admission if they have completed 6 credits of math (algebra & statistics preferred), quality control, & physics. Any of these courses not completed at the associate degree level must be completed at the bachelor degree level as Electives or extra courses.

Six credits of ITE495 Internship may be taken as an alternative to the ITE499 Research Project.

California University of Pennsylvania

Bachelor of Science
Eberly College of Science & Technology
Major: Technology Management
Major Code: 7122

Credits Required: 120
Concentration: None

Required Minor: None
Required Minor Code: None

General Education (30 crs AS/12 crs BS)

Building a Sense of Community (1 credit)
From AS Degree   CCAC
Composition (3 credits)
From AS Degree   CCAC
Public Speaking (3 credits)
From AS Degree   CCAC
Mathematics and Quantitative Literacy (3 credits)
From AS Degree   CCAC
Health and Wellness (3 credits)
Any Health and Wellness Course (3 credits)
Technological Literacy (3 credits)
From AS Degree   CCAC
Humanities (3 credits)
Any Humanities Course (3 credits)   CCAC
Fine Arts (3 credits)
Any Fine Arts Course (3 credits)   CCAC
Natural Sciences (4 credits)
From AS Degree   CCAC
Social Sciences (3 credits)
ECO 103 Microeconomics (3 credits)   CCAC
General Education Options (13 credits)
Ethics & Multicultural Awareness (3 crs)
From AS Degree (10 credits)   CCAC

Additional Major Requirements

(Not counted toward the General Education requirements)
Special Experience Course (1 course required)
ITE 471 Project Management
Upper-Division Writing Component Courses (2 courses required)
ITE 420 Production Analysis
ITE 481 Concepts & Issues in Technology Mgmt
Laboratory Course (1 course required)
From AS Degree   CCAC

Program Requirements

Required Major Courses (27 crs AS-CCAC/33 crs BS)
ITE 305 OSHA General Industrial Safety (3 credits)
ITE 342 Quality Planning & Analysis (3 crs)
ITE 375 Principles of Production (3 crs)
ITE 376 Technical Supervision (3 crs)
ITE 385 Industrial Cost Estimating (3 crs)
ITE 420 Production Analysis (3 crs)
ITE 461 Supply Chain Fundamentals (3 crs)
ITE 471 Project Management (3 crs)
ITE 481 Concepts & Issues in Technology Mgmt (3 crs)
ITE499 Research Project (6 crs)
Required Related Courses (0 credits)
None
Related Electives (0 credits)
None
Free Electives (18 credits)
From AS degree (2-7 credits)   **CCAC**
Student Selected (3 credits)
Student Selected (3 credits)
Student Selected (3 credits)
Student Selected (3 credits)
Student Selected (3 credits)
Program Notes:

Of the 60 credits total at least 42 credits of advanced coursework (defined as any course numbered 200 or above with at least one prerequisite course) are required.

Admission to the Technology Management program requires an Associate of Science (AS) degree in a Technology Management related area (60 credits maximum) OR admission via an Articulation Agreement; 27 of those credits will be applied to General Education, 27 credits will be applied to Major requirements, and 6 credits will be applied to Electives. Agreements dictate credit placement. Graduates of associate of applied science degree programs qualify for admission if they have completed 6 credits of math (algebra & statistics preferred), quality control, & physics. Any of these courses not completed at the associate degree level must be completed at the bachelor degree level as Electives or extra courses.

Six credits of ITE495 Internship may be taken as an alternative to the ITE499 Research Project.

California University of Pennsylvania

Bachelor of Science
Eberly College of Science & Technology
Major: Technology Management
Major Code: 7122

Credits Required: 120
Concentration: None

Required Minor: None
Required Minor Code: None

General Education (30 crs AS/12 crs BS)

Building a Sense of Community (1 credit)

From AS Degree   **CCAC**

Composition (3 credits)

From AS Degree   **CCAC**

Public Speaking (3 credits)

From AS Degree   **CCAC**

Mathematics and Quantitative Literacy (3 credits)

From AS Degree   **CCAC**

Health and Wellness (3 credits)

Any Health and Wellness Course (3 credits)

Technological Literacy (3 credits)

From AS Degree   **CCAC**

Humanities (3 credits)

Any Humanities Course (3 credits)   **CCAC**

Fine Arts (3 credits)

Any Fine Arts Course (3 credits)

Natural Sciences (4 credits)

From AS Degree   **CCAC**

Social Sciences (3 credits)

ECO 103 Microeconomics (3 credits)   **CCAC**

General Education Options (13 credits)

Ethics & Multicultural Awareness (3 crs)

From AS Degree (10 credits)   **CCAC**

Additional Major Requirements

(Not counted toward the General Education requirements)

Special Experience Course (1 course required)

ITE 471 Project Management

Upper-Division Writing Component Courses (2 courses required)

ITE 420 Production Analysis

ITE 481 Concepts & Issues in Technology Mgmt

Laboratory Course (1 course required)

From AS Degree   **CCAC**

Program Requirements

Required Major Courses (27 crs AS-CCAC/33 crs BS)

ITE 305 OSHA General Industrial Safety (3 credits)
ITE 342 Quality Planning & Analysis (3 crs)
ITE 375 Principles of Production (3 crs)
ITE 376 Technical Supervision (3 crs)
ITE 385 Industrial Cost Estimating (3 crs)
ITE 420 Production Analysis (3 crs)
ITE 461 Supply Chain Fundamentals (3 crs)
ITE 471 Project Management (3 crs)
ITE 481 Concepts & Issues in Technology Mgmt (3 crs)
ITE499 Research Project (6 crs)

Required Related Courses (0 credits)

None

Related Electives (0 credits)

None

Free Electives (18 credits)

From AS degree (9-10 credits)   **CCAC**

Student Selected (3 credits)
Student Selected (3 credits)
Student Selected (3 credits)
Student Selected (3 credits)
Student Selected (3 credits)

Program Notes:

Of the 60 credits total at least 42 credits of advanced coursework (defined as any course numbered 200 or above with at least one prerequisite course) are required.

Admission to the Technology Management program requires an Associate of Science (AS) degree in a Technology Management related area (60 credits maximum) OR admission via an Articulation Agreement; 27 of those credits will be applied to General Education, 27 credits will be applied to Major requirements, and 6 credits will be applied to Electives. Agreements dictate credit placement. Graduates of associate of applied science degree programs qualify for admission if they have completed 6 credits of math (algebra & statistics preferred), quality control, & physics. Any of these courses not completed at the associate degree level must be completed at the bachelor degree level as Electives or extra courses.

Six credits of ITE495 Internship may be taken as an alternative to the ITE499 Research Project.

California University of Pennsylvania

Bachelor of Science
Eberly College of Science & Technology
Major: Technology Management
Major Code: 7122

Credits Required: 120
Concentration: None

Required Minor: None
Required Minor Code: None

General Education (30 crs AS/12 crs BS)

Building a Sense of Community (1 credit)
    From AS Degree   **CCAC**

Composition (3 credits)
    From AS Degree   **CCAC**

Public Speaking (3 credits)
    From AS Degree   **CCAC**

Mathematics and Quantitative Literacy (3 credits)
    From AS Degree   **CCAC**

Health and Wellness (3 credits)
    Any Health and Wellness Course (3 credits)

Technological Literacy (3 credits)
    From AS Degree   **CCAC**

Humanities (3 credits)
    Any Humanities Course (3 credits)   **CCAC**

Fine Arts (3 credits)
    Any Fine Arts Course (3 credits)

Natural Sciences (4 credits)
    From AS Degree   **CCAC**

Social Sciences (3 credits)
    ECO 103 Microeconomics (3 credits)   **CCAC**

General Education Options (13 credits)
    Ethics & Multicultural Awareness (3 crs)
    From AS Degree (10 credits)   **CCAC**

Additional Major Requirements

(Not counted toward the General Education requirements)

Special Experience Course (1 course required)
    ITE 471 Project Management

Upper-Division Writing Component Courses (2 courses required)
    ITE 420 Production Analysis
    ITE 481 Concepts & Issues in Technology Mgmt

Laboratory Course (1 course required)
    From AS Degree   **CCAC**

Program Requirements

Required Major Courses (27 crs AS-CCAC/33 crs BS)
    ITE 305 OSHA General Industrial Safety (3 credits)
    ITE 342 Quality Planning & Analysis (3 crs)
    ITE 375 Principles of Production (3 crs)
    ITE 376 Technical Supervision (3 crs)
    ITE 385 Industrial Cost Estimating (3 crs)
    ITE 420 Production Analysis (3 crs)
    ITE 461 Supply Chain Fundamentals (3 crs)
    ITE 471 Project Management (3 crs)
    ITE 481 Concepts & Issues in Technology Mgmt (3 crs)
    ITE499 Research Project (6 crs)

Required Related Courses (0 credits)
    None

Related Electives (0 credits)
    None

Free Electives (18 credits)
    From AS degree (4-9 credits)   **CCAC**
    Student Selected (3 credits)
    Student Selected (3 credits)
    Student Selected (3 credits)
    Student Selected (3 credits)
    Student Selected (3 credits)

Program Notes:

Of the 60 credits total at least 42 credits of advanced coursework (defined as any course numbered 200 or above with at least one prerequisite course) are required.

Admission to the Technology Management program requires an Associate of Science (AS) degree in a Technology Management related area (60 credits maximum) OR admission via an Articulation Agreement; 27 of those credits will be applied to General Education, 27 credits will be applied to Major requirements, and 6 credits will be applied to Electives. Agreements dictate credit placement. Graduates of associate of applied science degree programs qualify for admission if they have completed 6 credits of math (algebra & statistics preferred), quality control, & physics. Any of these courses not completed at the associate degree level must be completed at the bachelor degree level as Electives or extra courses.

Six credits of ITE495 Internship may be taken as an alternative to the ITE499 Research Project.

California University of Pennsylvania

Bachelor of Science
Eberly College of Science & Technology
Major: Technology Management
Major Code: 7122

Credits Required: 120
Concentration: None

Required Minor: None
Required Minor Code: None

General Education (30 crs AS/12 crs BS)

Building a Sense of Community (1 credit)

From AS Degree   **CCAC**

Composition (3 credits)

From AS Degree   **CCAC**

Public Speaking (3 credits)

From AS Degree   **CCAC**

Mathematics and Quantitative Literacy (3 credits)

From AS Degree   **CCAC**

Health and Wellness (3 credits)

Any Health and Wellness Course (3 credits)

Technological Literacy (3 credits)

From AS Degree   **CCAC**

Humanities (3 credits)

Any Humanities Course (3 credits)   **CCAC**

Fine Arts (3 credits)

Any Fine Arts Course (3 credits)

Natural Sciences (4 credits)

From AS Degree   **CCAC**

Social Sciences (3 credits)

ECO 103 Microeconomics (3 credits)   **CCAC**

General Education Options (13 credits)

Ethics & Multicultural Awareness (3 crs)

From AS Degree (10 credits)   **CCAC**

Additional Major Requirements

(Not counted toward the General Education requirements)

Special Experience Course (1 course required)

ITE 471 Project Management

Upper-Division Writing Component Courses (2 courses required)

ITE 420 Production Analysis

ITE 481 Concepts & Issues in Technology Mgmt

Laboratory Course (1 course required)

From AS Degree   **CCAC**

Program Requirements

Required Major Courses (27 crs AS-CCAC/33 crs BS)

ITE 305 OSHA General Industrial Safety (3 credits)

ITE 342 Quality Planning & Analysis (3 crs)

ITE 375 Principles of Production (3 crs)

ITE 376 Technical Supervision (3 crs)

ITE 385 Industrial Cost Estimating (3 crs)

ITE 420 Production Analysis (3 crs)

ITE 461 Supply Chain Fundamentals (3 crs)

ITE 471 Project Management (3 crs)

ITE 481 Concepts & Issues in Technology Mgmt (3 crs)

ITE499 Research Project (6 crs)

Required Related Courses (0 credits)

None

Related Electives (0 credits)

None

Free Electives (18 credits)

From AS degree (3 credits)   **CCAC**

Student Selected (3 credits)

Student Selected (3 credits)

Student Selected (3 credits)

Student Selected (3 credits)

Student Selected (3 credits)

Program Notes:

Of the 60 credits total at least 42 credits of advanced coursework (defined as any course numbered 200 or above with at least one prerequisite course) are required.

Admission to the Technology Management program requires an Associate of Science (AS) degree in a Technology Management related area (60 credits maximum) OR admission via an Articulation Agreement; 27 of those credits will be applied to General Education, 27 credits will be applied to Major requirements, and 6 credits will be applied to Electives. Agreements dictate credit placement. Graduates of associate of applied science degree programs qualify for admission if they have completed 6 credits of math (algebra & statistics preferred), quality control, & physics. Any of these courses not completed at the associate degree level must be completed at the bachelor degree level as Electives or extra courses.

Six credits of ITE495 Internship may be taken as an alternative to the ITE499 Research Project.

California University of Pennsylvania

Bachelor of Science
Eberly College of Science & Technology
Major: Technology Management
Major Code: 7122

Credits Required: 120
Concentration: None

Required Minor: None
Required Minor Code: None

General Education (30 crs AS/12 crs BS)

Building a Sense of Community (1 credit)

From AS Degree   CCAC

Composition (3 credits)

From AS Degree   CCAC

Public Speaking (3 credits)

From AS Degree   CCAC

Mathematics and Quantitative Literacy (3 credits)

From AS Degree   CCAC

Health and Wellness (3 credits)

Any Health and Wellness Course (3 credits)

Technological Literacy (3 credits)

From AS Degree   CCAC

Humanities (3 credits)

Any Humanities Course (3 credits)   CCAC

Fine Arts (3 credits)

Any Fine Arts Course (3 credits)

Natural Sciences (4 credits)

From AS Degree   CCAC

Social Sciences (3 credits)

ECO 103 Microeconomics (3 credits)   CCAC

General Education Options (13 credits)

Ethics & Multicultural Awareness (3 crs)

From AS Degree (10 credits)   CCAC

Additional Major Requirements

(Not counted toward the General Education requirements)

Special Experience Course (1 course required)

ITE 471 Project Management

Upper-Division Writing Component Courses (2 courses required)

ITE 420 Production Analysis

ITE 481 Concepts & Issues in Technology Mgmt

Laboratory Course (1 course required)

From AS Degree   CCAC

Program Requirements

Required Major Courses (27 crs AS-CCAC/33 crs BS)

ITE 305 OSHA General Industrial Safety (3 credits)
ITE 342 Quality Planning & Analysis (3 crs)
ITE 375 Principles of Production (3 crs)
ITE 376 Technical Supervision (3 crs)
ITE 385 Industrial Cost Estimating (3 crs)
ITE 420 Production Analysis (3 crs)
ITE 461 Supply Chain Fundamentals (3 crs)
ITE 471 Project Management (3 crs)
ITE 481 Concepts & Issues in Technology Mgmt (3 crs)
ITE499 Research Project (6 crs)

Required Related Courses (0 credits)

None

Related Electives (0 credits)

None

Free Electives (18 credits)

From AS degree (2 credits)   CCAC
Student Selected (3 credits)
Student Selected (3 credits)
Student Selected (3 credits)
Student Selected (3 credits)
Student Selected (3 credits)

Program Notes:

Of the 60 credits total at least 42 credits of advanced coursework (defined as any course numbered 200 or above with at least one prerequisite course) are required.

Admission to the Technology Management program requires an Associate of Science (AS) degree in a Technology Management related area (60 credits maximum) OR admission via an Articulation Agreement; 27 of those credits will be applied to General Education, 27 credits will be applied to Major requirements, and 6 credits will be applied to Electives. Agreements dictate credit placement. Graduates of associate of applied science degree programs qualify for admission if they have completed 6 credits of math (algebra & statistics preferred), quality control, & physics. Any of these courses not completed at the associate degree level must be completed at the bachelor degree level as Electives or extra courses.

Six credits of ITE495 Internship may be taken as an alternative to the ITE499 Research Project.

California University of Pennsylvania

Bachelor of Science
Eberly College of Science & Technology
Major: Technology Management
Major Code: 7122

Credits Required: 120
Concentration: None

Required Minor: None

Required Minor Code: None

General Education (30 crs AS/12 crs BS)

Building a Sense of Community (1 credit)

From AS Degree   **CCAC**

Composition (3 credits)

From AS Degree   **CCAC**

Public Speaking (3 credits)

From AS Degree   **CCAC**

Mathematics and Quantitative Literacy (3 credits)

From AS Degree   **CCAC**

Health and Wellness (3 credits)

*Any Health and Wellness Course (3 credits) **CCAC**

Technological Literacy (3 credits)

From AS Degree   **CCAC**

Humanities (3 credits)

Any Humanities Course (3 credits)   **CCAC**

Fine Arts (3 credits)

*Any Fine Arts Course (3 credits)   **CCAC**

Natural Sciences (4 credits)

From AS Degree   **CCAC**

Social Sciences (3 credits)

ECO 103 Microeconomics (3 credits)   **CCAC**

General Education Options (13 credits)

Ethics & Multicultural Awareness (3 crs) **CCAC**
From AS Degree (10 credits)   **CCAC**

Additional Major Requirements

(Not counted toward the General Education requirements)

Special Experience Course (1 course required)

ITE 471 Project Management

Upper-Division Writing Component Courses (2 courses required)

ITE 420 Production Analysis
ITE 481 Concepts & Issues in Technology Mgmt

Laboratory Course (1 course required)

From AS Degree   **CCAC**

Program Requirements

Required Major Courses (27 crs AS-CCAC/33 crs BS)

ITE 305 OSHA General Industrial Safety (3 credits)
ITE 342 Quality Planning & Analysis (3 crs)
ITE 375 Principles of Production (3 crs)
ITE 376 Technical Supervision (3 crs)
ITE 385 Industrial Cost Estimating (3 crs)
ITE 420 Production Analysis (3 crs)
ITE 461 Supply Chain Fundamentals (3 crs)
ITE 471 Project Management (3 crs)
ITE 481 Concepts & Issues in Technology Mgmt (3 crs)
ITE499 Research Project (6 crs)

Required Related Courses (0 credits)

None

Related Electives (0 credits)

None

Free Electives (18 credits)

From AS degree (0-10 credits)   **CCAC**
Student Selected (3 credits)
Student Selected (3 credits)
Student Selected (3 credits)
Student Selected (3 credits)
Student Selected (3 credits)

Program Notes:

Of the 60 credits total at least 42 credits of advanced coursework (defined as any course numbered 200 or above with at least one prerequisite course) are required.

Admission to the Technology Management program requires an Associate of Science (AS) degree in a Technology Management related area (60 credits maximum) OR admission via an Articulation Agreement; 27 of those credits will be applied to General Education, 27 credits will be applied to Major requirements, and 6 credits will be applied to Electives. Agreements dictate credit placement. Graduates of associate of applied science degree programs qualify for admission if they have completed 6 credits of math (algebra & statistics preferred), quality control, & physics. Any of these courses not completed at the associate degree level must be completed at the bachelor degree level as Electives or extra courses.

Six credits of ITE495 Internship may be taken as an alternative to the ITE499 Research Project.

California University of Pennsylvania

Bachelor of Science
Eberly College of Science & Technology
Major: Technology Management
Major Code: 7122

Credits Required: 120 Degree
Concentration: None

Required Minor: None
Required Minor Code: None

General Education (30 crs AS/12 crs BS)

Building a Sense of Community (1 credit)

From AS Degree   CCAC

Composition (3 credits)

From AS Degree   CCAC

Public Speaking (3 credits)

From AS Degree   CCAC

Mathematics and Quantitative Literacy (3 credits)

From AS Degree   CCAC

Health and Wellness (3 credits)

Any Health and Wellness Course (3 credits)

Technological Literacy (3 credits)

From AS Degree   CCAC

Humanities (3 credits)

Any Humanities Course (3 credits)   CCAC

Fine Arts (3 credits)

Any Fine Arts Course (3 credits)

Natural Sciences (4 credits)

From AS Degree   CCAC

Social Sciences (3 credits)

ECO 103 Microeconomics (3 credits)   CCAC

General Education Options (13 credits)

Ethics & Multicultural Awareness (3 crs)

From AS Degree (10 credits)   CCAC

Additional Major Requirements

(Not counted toward the General Education requirements)

Special Experience Course (1 course required)

ITE 471 Project Management

Upper-Division Writing Component Courses (2 courses required)

ITE 420 Production Analysis

ITE 481 Concepts & Issues in Technology Mgmt

Laboratory Course (1 course required)

From AS Degree   CCAC

Program Requirements

Required Major Courses (27 crs AS-CCAC/33 crs BS)

ITE 305 OSHA General Industrial Safety (3 credits)

ITE 342 Quality Planning & Analysis (3 crs)

ITE 375 Principles of Production (3 crs)

ITE 376 Technical Supervision (3 crs)

ITE 385 Industrial Cost Estimating (3 crs)

ITE 420 Production Analysis (3 crs)

ITE 461 Supply Chain Fundamentals (3 crs)

ITE 471 Project Management (3 crs)

ITE 481 Concepts & Issues in Technology Mgmt (3 crs)

ITE499 Research Project (6 crs)

Required Related Courses (0 credits)

None

Related Electives (0 credits)

None

Free Electives (18 credits)

From AS degree (8- credits)   CCAC

Student Selected (3 credits)

Student Selected (3 credits)

Student Selected (3 credits)

Student Selected (3 credits)

Student Selected (3 credits)

Program Notes:

Of the 60 credits total at least 42 credits of advanced coursework (defined as any course numbered 200 or above with at least one prerequisite course) are required.

Admission to the Technology Management program requires an Associate of Science (AS) degree in a Technology Management related area (60 credits maximum) OR admission via an Articulation Agreement; 27 of those credits will be applied to General Education, 27 credits will be applied to Major requirements, and 6 credits will be applied to Electives. Agreements dictate credit placement. Graduates of associate of applied science degree programs qualify for admission if they have completed 6 credits of math (algebra & statistics preferred), quality control, & physics. Any of these courses not completed at the associate degree level must be completed at the bachelor degree level as Electives or extra courses.

Six credits of ITE495 Internship may be taken as an alternative to the ITE499 Research Project.

California University of Pennsylvania

Bachelor of Science
Eberly College of Science & Technology
Major: Technology Management
Major Code: 7122

Credits Required: 120
Concentration: None

Required Minor: None
Required Minor Code: None

General Education (30 crs AS/12 crs BS)

Building a Sense of Community (1 credit)

From AS Degree   **CCAC**

Composition (3 credits)

From AS Degree   **CCAC**

Public Speaking (3 credits)

From AS Degree   **CCAC**

Mathematics and Quantitative Literacy (3 credits)

From AS Degree   **CCAC**

Health and Wellness (3 credits)

Any Health and Wellness Course (3 credits)

Technological Literacy (3 credits)

From AS Degree   **CCAC**

Humanities (3 credits)

Any Humanities Course (3 credits)

Fine Arts (3 credits)

Any Fine Arts Course (3 credits)   **CCAC**

Natural Sciences (4 credits)

From AS Degree   **CCAC**

Social Sciences (3 credits)

ECO 201 Microeconomics (3 credits)

General Education Options (13 credits)

Ethics & Multicultural Awareness (3 crs)

From AS Degree (10 credits)   **CCAC**

Additional Major Requirements

(Not counted toward the General Education requirements)

Special Experience Course (1 course required)

ITE 471 Project Management

Upper-Division Writing Component Courses (2 courses required)

ITE 420 Production Analysis

ITE 481 Concepts & Issues in Technology Mgmt

Laboratory Course (1 course required)

From AS Degree-**CCAC**

Program Requirements

Required Major Courses (27 crs AS-CCAC/33 crs BS)

ITE 305 OSHA General Industrial Safety (3 credits)

ITE 342 Quality Planning & Analysis (3 crs)

ITE 375 Principles of Production (3 crs)

ITE 376 Technical Supervision (3 crs)

ITE 385 Industrial Cost Estimating (3 crs)

ITE 420 Production Analysis (3 crs)

ITE 461 Supply Chain Fundamentals (3 crs)

ITE 471 Project Management (3 crs)

ITE 481 Concepts & Issues in Technology Mgmt (3 crs)

ITE499 Research Project (6 crs)

Required Related Courses (0 credits)

None

Related Electives (0 credits)

None

Free Electives (18 credits)

From AS degree (6-10 credits)   **CCAC**

Student Selected (3 credits)

Student Selected (3 credits)

Student Selected (3 credits)

Student Selected (3 credits)

Student Selected (3 credits)

Program Notes:

Of the 60 credits total at least 42 credits of advanced coursework (defined as any course numbered 200 or above with at least one prerequisite course) are required.

Admission to the Technology Management program requires an Associate of Science (AS) degree in a Technology Management related area (60 credits maximum) OR admission via an Articulation Agreement; 27 of those credits will be applied to General Education, 27 credits will be applied to Major requirements, and 6 credits will be applied to Electives. Agreements dictate credit placement. Graduates of associate of applied science degree programs qualify for admission if they have completed 6 credits of math (algebra & statistics preferred), quality control, & physics. Any of these courses not completed at the associate degree level must be completed at the bachelor degree level as Electives or extra courses.

Six credits of ITE495 Internship may be taken as an alternative to the ITE499 Research Project.

California University of Pennsylvania

Bachelor of Science
Eberly College of Science & Technology
Major: Technology Management
Major Code: 7122

Credits Required: 120
Concentration: None

Required Minor: None

Required Minor Code: None

General Education (30 crs AS/12 crs BS)

Building a Sense of Community (1 credit)

From AS Degree	**CCAC**

Composition (3 credits)

From AS Degree	**CCAC**

Public Speaking (3 credits)

From AS Degree	**CCAC**

Mathematics and Quantitative Literacy (3 credits)

From AS Degree	**CCAC**

Health and Wellness (3 credits)

Any Health and Wellness Course (3 credits)

Technological Literacy (3 credits)

From AS Degree	**CCAC**

Humanities (3 credits)

Any Humanities Course (3 credits)	**CCAC**

Fine Arts (3 credits)

Any Fine Arts Course (3 credits)

Natural Sciences (4 credits)

From AS Degree	**CCAC**

Social Sciences (3 credits)

ECO 103 Microeconomics (3 credits)	**CCAC**

General Education Options (13 credits)

Ethics & Multicultural Awareness (3 crs)	
From AS Degree (10 credits)	**CCAC**

Additional Major Requirements

(Not counted toward the General Education requirements)

Special Experience Course (1 course required)

ITE 471 Project Management

Upper-Division Writing Component Courses (2 courses required)

ITE 420 Production Analysis
ITE 481 Concepts & Issues in Technology Mgmt

Laboratory Course (1 course required)

From AS Degree-**CCAC**

Program Requirements

Required Major Courses (27 crs AS-CCAC/33 crs BS)

ITE 305 OSHA General Industrial Safety (3 credits)
ITE 342 Quality Planning & Analysis (3 crs)
ITE 375 Principles of Production (3 crs)
ITE 376 Technical Supervision (3 crs)
ITE 385 Industrial Cost Estimating (3 crs)
ITE 420 Production Analysis (3 crs)
ITE 461 Supply Chain Fundamentals (3 crs)
ITE 471 Project Management (3 crs)
ITE 481 Concepts & Issues in Technology Mgmt (3 crs)
ITE499 Research Project (6 crs)

Required Related Courses (0 credits)

None

Related Electives (0 credits)

None

Free Electives (18 credits)

From AS degree (9 credits)	**CCAC**
Student Selected (3 credits)	
Student Selected (3 credits)	
Student Selected (3 credits)	
Student Selected (3 credits)	
Student Selected (3 credits)	

Program Notes:

Of the 60 credits total at least 42 credits of advanced coursework (defined as any course numbered 200 or above with at least one prerequisite course) are required.

Admission to the Technology Management program requires an Associate of Science (AS) degree in a Technology Management related area (60 credits maximum) OR admission via an Articulation Agreement; 27 of those credits will be applied to General Education, 27 credits will be applied to Major requirements, and 6 credits will be applied to Electives. Agreements dictate credit placement. Graduates of associate of applied science degree programs qualify for admission if they have completed 6 credits of math (algebra & statistics preferred), quality control, & physics. Any of these courses not completed at the associate degree level must be completed at the bachelor degree level as Electives or extra courses.

Six credits of ITE495 Internship may be taken as an alternative to the ITE499 Research Project.

Welding Technology Associate of Science B.12
California University of Pennsylvania

Bachelor of Science
Eberly College of Science & Technology
Major: Technology Management
Major Code: 7122

Credits Required: 120
Concentration: None

Required Minor: None
Required Minor Code: None

General Education (30 crs AS/12 crs BS)

Building a Sense of Community (1 credit)
From AS Degree   **CCAC**
Composition (3 credits)
From AS Degree   **CCAC**
Public Speaking (3 credits)
From AS Degree   **CCAC**
Mathematics and Quantitative Literacy (3 credits)
From AS Degree   **CCAC**
Health and Wellness (3 credits)
Any Health and Wellness Course (3 credits)
Technological Literacy (3 credits)
From AS Degree   **CCAC**
Humanities (3 credits)
Any Humanities Course (3 credits)
Fine Arts (3 credits)
Any Fine Arts Course (3 credits)
Natural Sciences (4 credits)
From AS Degree   **CCAC**
Social Sciences (3 credits)
ECO 201 Microeconomics (3 credits)
General Education Options (13 credits)
Ethics & Multicultural Awareness (3 crs)
From AS Degree (10 credits)   **CCAC**

Additional Major Requirements
(Not counted toward the General Education requirements)
Special Experience Course (1 course required)
ITE 471 Project Management
Upper-Division Writing Component Courses (2 courses required)
ITE 420 Production Analysis
ITE 481 Concepts & Issues in Technology Mgmt
Laboratory Course (1 course required)
From AS Degree-**CCAC**

Program Requirements

Required Major Courses (27 crs AS-CCAC/33 crs BS)
ITE 305 OSHA General Industrial Safety (3 credits)
ITE 342 Quality Planning & Analysis (3 crs)
ITE 375 Principles of Production (3 crs)
ITE 376 Technical Supervision (3 crs)
ITE 385 Industrial Cost Estimating (3 crs)
ITE 420 Production Analysis (3 crs)
ITE 461 Supply Chain Fundamentals (3 crs)
ITE 471 Project Management (3 crs)
ITE 481 Concepts & Issues in Technology Mgmt (3 crs)
ITE499 Research Project (6 crs)
Required Related Courses (0 credits)
None
Related Electives (0 credits)
None
Free Electives (18 credits)
From AS degree (9 credits)   CCAC
Student Selected (3 credits)
Student Selected (3 credits)
Student Selected (3 credits)
Student Selected (3 credits)
Student Selected (3 credits)
Program Notes:
Of the 60 credits total at least 42 credits of advanced coursework (defined as any course numbered 200 or above with at least one prerequisite course) are required.
Admission to the Technology Management program requires an Associate of Science (AS) degree in a Technology Management related area (60 credits maximum) OR admission via an Articulation Agreement; 27 of those credits will be applied to General Education, 27 credits will be applied to Major requirements, and 6 credits will be applied to Electives. Agreements dictate credit placement. Graduates of associate of applied science degree programs qualify for admission if they have completed 6 credits of math (algebra & statistics preferred), quality control, & physics. Any of these courses not completed at the associate degree level must be completed at the bachelor degree level as Electives or extra courses.
Six credits of ITE495 Internship may be taken as an alternative to the ITE499 Research Project.