



California University of Pennsylvania

250 University Avenue
California, PA 15419-1394
www.cup.edu

OFFICE OF ARTICULATION AND TRANSFER EVALUATION

Building Character. Building Careers.

724-938-5939 | 724-938-4564 FAX

March 28, 2008

CCAC

ATTN: Frances K. Dice
College Office
800 Allegheny Avenue
Pittsburgh, PA 15233-1895

RE: TED Agreement

Dear Fran:

Enclosed is a fully executed agreement between California University of Pennsylvania and CCAC.

Sincerely,

Belinda L. Smith
Director, Articulation
and Transfer Evaluation

Enclosures

BLS/mas

Reginald Academic SP 4-1-8

**COMMUNITY COLLEGE OF ALLEGHENY COUNTY
AND
CALIFORNIA UNIVERSITY OF PENNSYLVANIA
ARTICULATION AGREEMENT**

THIS AGREEMENT, dated this 1st day of March, 2008, is made by and between, the Community College of Allegheny County, hereinafter called, "CCAC", and California University of 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.

I. PURPOSE

The primary purpose of this Agreement is to enhance the transferability between CCAC's Associate of Science Degree Programs in Architectural Drafting and Design Technology, Civil Engineering Technology, Computer-Aided Drafting and Design Technology, Manufacturing Technology (Controls, Machining, Nanofabrication or Welding track), Mechanical Drafting and Design Technology, Microcomputer Electronics Technology, Robotics and Automated Systems Technology, or Science and Engineering Technology and CAL U's Bachelor of Science in Education with certification in Technology Education. A secondary purpose is to provide faculty and administration of both institutions with more precise guidelines for advising students interested in pursuing a Bachelor of Science in Education with certification in Technology Education.

Exhibit A, consisting of eleven (11) pages, attached hereto and incorporated herein, outlines the courses that will be accepted from CAL U. Exhibit B, consisting of twenty-two pages (22), attached hereto and incorporated herein, outlines the courses necessary for the Bachelor of Science in Education Degree with Certification in Technology Education from CAL U.

II. MUTUAL TERMS AND CONDITIONS

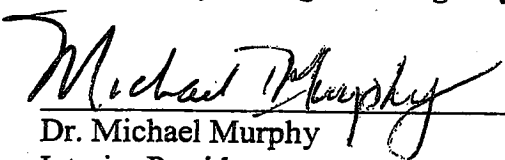
- A. Term of the Agreement.** This Agreement shall be in effect for five (5) years from the date of signature and will be reviewed annually for accuracy.
- B. Termination of the Agreement.** CCAC and CAL U may terminate this Agreement for any reason or no reason with ninety (90) days written notice from either party. Either party may terminate this Agreement in the event of a substantial breach. However, should either party terminate this Agreement, all students enrolled at that time may continue their educational experience until it would have been concluded absent the termination.
- C. Non-discrimination.** The parties agree to continue their respective policies of non-discrimination based on 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 the Americans with Disabilities Act.

- D. **Interpretation of the Agreement.** The laws of the Commonwealth of Pennsylvania shall govern this Agreement.
- E. **Modification of Agreement.** This Agreement shall only be modified in writing with the same formality as the original Agreement.
- F. **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.
- G. **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 CCAC or that of the Commonwealth, or the State System of Higher Education, or CAL U.
- H. **Entire Agreement.** This Agreement represents the entire understanding between the parties. No other prior or contemporaneous oral or written understandings or promises exist in regards to this relationship. Any changes, corrections or additions to this contract shall be in writing in the form of a supplemental agreement signed by all necessary parties and setting forth therein the proposed change, correction, or addition.


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

Community College of Allegheny County

California University of Pennsylvania

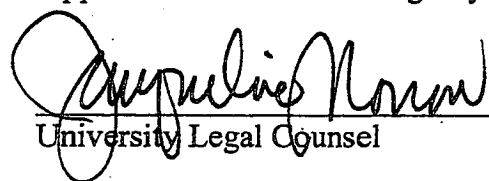


 Dr. Michael Murphy
 Interim President
 Community College of Allegheny County

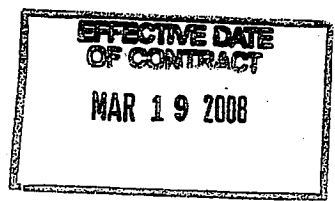


 Dr. Sean C. Madden, Provost and
 Vice President for Academic Affairs
 California University of Pennsylvania

Approved as to form and legality:



 University Legal Counsel



ATTACHMENT A

CCAC

Architectural Drafting & Design	Cr	Cal U		Application at Cal U for	
		Cal U Equivalent	Cr	Technology Ed	Cr
First Semester					
EDD 101 Engineering Drawing I	3	ITE 110 Technical Drawing 1	3	use for TED 105	3
EDD 120 Intro to CAD	4	ITE 215 CAD 1	4	Technical Elective	4
EGR 100 Engineering Seminar	1	UNI 100 First Year Seminar	1	use for First Year Seminar	1
PHY 113 Technical Physics 1	3	PHY 121 General Physics I	3	use for Natural Science	3
MAT 114 Math for Technologies 1	4	College Algebra	4	use for Math	4
Second Semester					
EDD 102 Engineering Drawing 2	3	Technical Elective	3	Free Elective	3
EDD 121 CAD Applications	4	ITE 162 Industrial Tech Elective	4	Technical Elective	4
MAT 116 Math for Technologies 2	4	MAT 191 College Trig	4	use for Major Requirement	4
MET 115 Architectural Sys Design	3	Technical Elective	3		
Soc Sci Elect: PSY 101 Int to Psych	3	PSY 100 General Psychology	3	use for Soc Sci	3
Third Semester					
CET 201 Materials of Construction	3		3		
EDD 141 Structural Drafting	3	Technical Elective	3		
EDD 230 Architectural Drafting	4	Technical Elective	4		
ENG 101 English Composition 1	3	ENG 101 English Composition I	3	use for Comm Skills	3
MET 150 Statics	4	Technical Elective	4		
Fourth Semester					
EDD 245 Adv Engineering Draw	4	Technical Elective	4		
ENG 103 Technical Communications	3	ENG 217 Science & Tech Writing	3	sub for Eng Comp II	3
MET 211 Strength of Materials	4	ITE 325 Statics & Strengths	4	Technical Elective	4
Humanities - Literature requirement	3	HLC 162 Humanities Elective	3	use for Lit requirement	3

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Civil Engineering Technology	Cr
First Semester	
EDD 101 Engineering Drawing 1	3
EGR 100 Engineering Seminar	1
EGR 110 Engineering Surveying	4
MAT 114 Math for Technologies 1	4
Engineering Elective	3
Second Semester	
EDD 120 Intro to CAD	4
PHY 141 Physics 1	4
MAT 116 Math for Technologies 2	4
Engineering Elective	3
Engineering Elective	3
Third Semester	
ENG 101 English Comp 1	3
CET 202 Soils in Construction	4
MET 150 Statics	4
PHY 142 Physics 2	4
Soc Sci Elect: PSY 101 Int to Psych	3
Fourth Semester	
CET 201 Mats of Construction OR	3
CET 205 Bldg Constr & Steel Des	3
ENG 102 English Comp 2	3
MET 211 Strength of Materials	4
Humanities	3
Engineering Electives	3

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Cal U	
Cal U Equivalent	Cr
ITE 110 Technical Drawing I	3
UNI 100 First Year Seminar	1
TLC 162 Technology Elective	4
MAT 181 College Algebra	4
Technology Elective	3
ITE 215 CAD 1	4
PHY 121 General Physics	4
MAT 191 College Trig	4
Technology Elective	3
Technology Elective	3
ENG 101 English Comp I	3
ELC 162 Free Elective	4
TLC 162 Technology Elective	4
PHY 122 General Physics 2	4
PSY 100 General Psychology	3
ELC 162 Free Elective OR	3
ELC 162 Free Elective	3
ENG 102 English Comp II	3
ITE 325 Statics & Strength	4
HLC 162 Humanities Elective	3
Technology Elective	3

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Application at Cal U for	
Technology Ed	Cr
use for TED 105	3
use for First Year Seminar	1
Technical Elective	4
use for Math	4
Technical Elective	4
use for Natural Science	4
use for Major requirement	4
use for Comm Skills	3
use for Free Elective	4
use for Natural Science	4
use for Soc Sci	3
use for Comm Skills	3
Technical Elective	4
use for Humanities	3

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Computer-Aided Drafting & Design Technology		Cal U		Application at Cal U for Technology Ed	
	Cr	Cal U Equivalent	Cr		Cr
First Semester					
EDD 101 Engineering Drawing 1	3	ITE 110 Technical Drawing 1	3	use for TED 105	3
EDD 120 Intro to CAD	4	ITE 215 CAD I	4	Technical Elective	4
EGR 100 Engineering Seminar	1	UNI 100 First Year Seminar	1	use for First Year Seminar	1
ENG 101 English Comp 1	3	ENG 101 English Comp 1	3	use for Comm Skills	3
MAT 114 Math for Technologies 1	4	MAT 181 College Algebra	4	use for Math	4
Second Semester					
EDD 102 Engineering Drawing 2	3	ITE 210 Technical Drawing 2	3	Technical Elective	3
EDD 121 CAD Applications	4	ITE 162 Indust Tech Elective	4		
ENG 103 Technical Commun	3	ENG 217 Science & Tech Writing	3	sub for ENG 102	3
MAT 116 Math for Technologies 2	4	MAT 191 College Trig	4	use for Major requirement	4
SET 105 Technical Computing	3	CSC 120 Prob Solv/Prg Const	3	Free Elective	3
Third Semester					
EDD 130 Solid Modeling Techn	3	ITE 162 Indus Tech Elective	3		
EDD 222 Customizing the CAD env	3	TLC 162 Technology Elective	3		
EDD Adv Drafting Elective	3	TLC 162 Technology Elective	3		
PHY 113 Technical Physics 1	3	PHY 121 General Physics I	3	use for Natural Science	3
EDD 135 Intro to Parmetric Mod 1	3	TLC 162 Technology Elective	3		
Fourth Semester					
EDD 221 Parmetric Mod 2	3	ITE 215 CAD I	3	Technical Elective	3
Humanities - Literature Course	3	HLC 162 Humanities Elective	3	use for Lit requirement	3
Social Science - take PSY 101 Intro	3	PSY 100 General Psychology	3	use for Soc Sci	3
Technical Elective	3	Technical Elective	3		
Technical Elective	3	Technical Elective	3		

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Manufacturing Technology Controls		Cr	Cal U		Cr	Application at Cal U for Technology Ed		Cr
First Semester								
EET 103 Intro to Electronics	3	ITE 130 Intro Circuit Analysis	3	Technical Elective	3			
MAT 114 Math for the Techno 1	4	MAT 181 College Algebra	4	use for Math	4			
SET 105 Technical Computing	3	TLC 164 Technology Elective	3	Technical Elective	3			
EGR 100 Engineering Seminar	1	UNI 100 First Year Seminar	1	use for First Year Seminar	1			
EDD 101 Engineering Drawing 1	3	ITE 110 Technical Drawing I	3	use for TED 105	3			
ENG 101 English Comp I	3	ENG 101 English Comp I	3	use for Comm Skills	3			
Second Semester								
EDD 120 Intro to CAD	4	ITE 215 CAD I	4	Technical Elective	4			
MAT 116 Math for the Techno 2	4	MAT 191 College Trig	4	use for Major requirement	4			
MET 112 Engineering Materials	4	PHS 135 Chem of Materials	4	use for Natural Science	4			
ENG 103 Technical Communic	3	ENG 217 Science & Tech Writing	3	sub for Comp II	3			
MIT 107 Electronic Fabrication	3	TLC 164 Technology Elective Lab	3					
Third Semester								
MET 200 Metrology	3	TLC 162 Technology Elective	3					
MET 106 Geometric Dimen & Toler	1	ELC 162 Free Elective	1					
PHY 113 Technical Physics 1	3	PHY 121 General Physics I	3	use for Natural Science	3			
MIT 103 Fund of Microprocessors	3	ELC 162 Free Elective	3	Free Elective	3			
RBT 235 Programmable Logic Cont	4	ITE 267 Program Control Systems	4					
Fourth Semester								
MET 212 Manufact Processes	3	TLC 162 Technology Elective	3					
RBT 225 Robotic Controls	4	TLC 162 Technology Elective	4	sub for ITE 250	4			
EDD 135 Intro to Parametric Mod	3	TLC 162 Technology Elective	3					
Humanities - Literature	3	HLC 162 Humanities Elective	3	use for Lit requirement	3			
Social Science - PSY 101 Intro to Ps	3	PSY 100 General Psychology	3	use for Soc Sci	3			

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Manufacturing Technology	Cr
Machining	
First Semester	
EET 103 Intro to Electronics	3
MAT 114 Math for the Techno 1	4
SET 105 Technical Computing	3
MFT 141 Intro to Machining	3
EGR 100 Engineering Seminar	1
ENG 101 English Comp I	3
Second Semester	
EDD 120 Intro to CAD	4
MAT 116 Math for the Techno 2	4
EDD 101 Engineering Drawing 1	3
MFT 143 Intro to Lathe	3
Third Semester	
MET 200 Metrology	3
MET 106 Geometric Dimen & Toler	1
PHY 113 Technical Physics 1	3
MFT 145 Intro to Milling	3
MFT 147 Intro to Grinding	3
Social Science - take PSY 101 Intro to	3
Fourth Semester	
MFT 149 Intro to CNC	3
MET 112 Engineering Materials	4
EDD 135 Intro to Parametric Mod	3
Humanities - Literature course	3
ENG 103 Technical Communications	3

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Cal U	
Cal U Equivalent	Cr
Cal U Equivalent	
First Semester	
ITE 130 Intro Circuit Analysis	3
MAT 181 College Algebra	4
CSC 120 Prob Solv/Prog Cons	3
ITE 165 Maching Processing I	3
UNI 100 First Year Seminar	1
ENG 101 English Comp I	3
Second Semester	
ITE 215 CAD I	4
MAT 191 College Trig	4
ITE 110 Technical Drawing I	3
TLC 162 Technology Elective	3
Third Semester	
TLC 162 Technology Elective	3
ELC 162 Free Elective	1
PHY 121 General Physics I	3
TLC 162 Technology Elective	3
TLC 162 Technology Elective	3
PSY 100 General Psychology	3
Fourth Semester	
ITE 236 Numerical Controls	3
PHS 135 Chemical of Materials	4
TLC 162 Technology Elective	3
HLC Humanities Elective	3
ENG 217 Sci and Tech Writing	3

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Application at Cal U for	
Technology Ed	Cr
Application at Cal U for	
Technology Ed	
Technical Elective	3
use for Math	4
Free Elective	3
Technical Elective	3
use for First Year Seminar	1
use for Comm Skills	3
Second Semester	
use for TED 105	4
use for Major requirement	4
Technical Elective	3
Third Semester	
use for Natural Science	3
Fourth Semester	
use for Natural Science	4
use for Lit requirement	3
sub for ENG 102	3

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Manufacturing Technology Nanofabrication	Cr
First Semester	
EET 103 Intro to Electronics	3
EGR 100 Engineering Seminar	1
ENG 101 English Comp I	3
MAT 114 Math for the Techno 1	4
SET 105 Technical Computing	3
Second Semester	
CHM 109 Intro to Chemistry	4
ENG 103 Technical Commun	3
MAT 116 Math for the Techno 2	4
MIT 107 Electronic Fabrication	3
PHY 113 Technical Physics 1	3
Third Semester	
MET 106 Geometric Dimen & Toler	1
MET 112 Engineering Materials	4
MET 200 Metrology	3
PHY 114 Technical Physics 2	3
Social Science - take PSY 101 Intro	3
Fourth Semester	
MFT 211 Material Safety & Equip	3
MFT 212 Basic Nanofabric Proc	3
MFT 213 Thin Films in Nanofabric	3
MFT 214 Lithography for Nanofabric	3
MFT 215 Material Modification	3
MFT 216 Characterization & Packag	3

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Cal U Cal U Equivalent	Cr
Cal U	
ITE 130 Intro Circuit Analysis	3
UNI 100 First Year Seminar	1
ENG 101 English Comp I	3
MAT 181 College Algebra	4
CSC 120 Prob Solv/Prog Cons	3
Cal U	
CHE 100 Intro to Chemistry	4
ENG 217 Science & Tech Writing	3
MAT 191 College Trig	4
TLC 164 Technology Elective	3
PHY 121 General Physics	3
Cal U	
ELC 162 Free Elective	1
PHS 135 Chem of Materials	4
TLC 162 Technology Elective	3
PHY 121 General Physics II	3
PSY 100 General Psychology	3
Cal U	
NMT 311 Mat, Safety & Equip in NM	3
NMT 312 Basic NMT Process	3
NMT 313 Thin Films in NMT	3
NMT 314 Adv Lith & Dielectrics	3
NMT 315 Materials Modific in NMT	3
NMT 316 Charac Packg Test NMT	3

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Application at Cal U for Technology Ed	Cr
Application at Cal U for Technology Ed	
Technical Elective	3
use for First Year Seminar	1
use for Comm Skills	3
use for Math	4
Free Elective	3
Application at Cal U for Technology Ed	
Sub ENG 217 for Comp 2	3
use for Major requirement	4
Application at Cal U for Technology Ed	
Natural Science	3
Application at Cal U for Technology Ed	
Natural Science	4
Application at Cal U for Technology Ed	
use for Soc Sci	3

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Manufacturing Technology	Cr
Welding	
First Semester	
EET 103 Intro to Electronics	3
MAT 114 Math for the Techno 1	4
SET 105 Technical Computing	3
EGR 100 Engineering Seminar	1
WLD 101 Welding Fundamentals	3
ENG 101 English Comp I	3
Second Semester	
EDD 120 Intro to CAD	4
MAT 116 Math for the Techno 2	4
EDD 101 Engineering Drawing 1	3
WLD 102 Advanced Welding	3
Third Semester	
MET 200 Metrology	3
MET 106 Geometric Dimen & Toler	1
PHY 113 Technical Physics 1	3
MET 112 Engineering Materials	4
WLD 201 Prep for Welding Cert	3
Social Science - Intro to Psychology	3
Fourth Semester	
WLD 202 MIG & TIG	3
MIT 212 Engineering Materials	4
EDD 135 Intro to Parametric Mod	3
Humanities - Literature	3
ENG 103 Technical Communications	3
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Cal U	Cr
Cal U Equivalent	
ITE 130 Intro Circuit Analysis	3
MAT 181 College Algebra	4
CSC 120 Prob Solv/Prg Const	3
UNI 100 First Year Seminar	1
Free Elective	3
ENG 101 English Comp I	3
ITE 215 CAD I	4
MAT 191 College Trig	4
ITE 110 Technical Drawing I	3
ELC 162 Free Elective	3
TLC 162 Technology Elective	3
ELC 162 Free Elective	1
PHY 121 General Physics I	3
PHS 135 Chem of Materials	4
ELC 162 Free Elective	3
PSY 100 General Psychology	3
ELC 162 Free Elective	3
TLC 162 Technology Elective	4
TLC 162 Technology Elective	3
HLC 162 Humanities Elective	3
ENG 217 Sci & Tech Writing	3
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Application at Cal U for	Cr
Technology Ed	
Technical Elective	3
use for Math	4
use for First Year Seminar	1
Free Elective	3
use for Comm Skills	3
use for TED 105	4
use for Major requirement	4
Technical Elective	3
Technical Elective	3
use for Natural Science	3
use for Natural Science	4
use for Soc Sci	3
use for Lit requirement	3
sub for Eng Comp II	3
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Mechanical Drafting and Design Technology	Cr
First Semester	
EDD 101 Engineering Drawing I	3
EDD 120 Introduction to CAD	4
EGR 100 Engineering Seminar	1
MAT 114 Math for Technologies 1	4
SET 105 Technical Computing	3
PHY 113 Technical Physics 1	3
Second Semester	
EDD 102 Engineering Drawing 2	3
EDD 121 CAD Applications	4
EDD 135 Intro to Parametric Modl	3
MAT 116 Math for Technologies 2	4
MET 112 Engineering Materials	4
Third Semester	
EDD 240 Mechanical Drafting	4
ENG 101 English Comp 1	3
MET 106 Geometric Dimens/Toler	1
MET 150 Statics	4
Social Science - take PSY 101 Intro	3
Fourth Semester	
EDD 245 Adv Engineering Draw	4
ENG 103 Technical Communications	3
MET 211 Strength of Materials	4
PHY 114 Technical Physics 2	3
Humanities - Literature	3

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Cal U Cal U Equivalent	Cr
ITE 110 Technical Drawing 1	3
ITE 215 CAD 1	4
UNI 100 First Year Seminar	1
MAT 181 College Algebra	4
CSC 120 Prob Solv/Prg Const	3
PHY 121 General Physics I	3
ITE 210 Technical Drawing 2	3
ITE 162 Industrial Tech Elective	4
TLC 162 Technical Elective	3
MAT 191 College Trig	4
PHS 135 Chemisty of Materials	4
ITE 162 Industrial Tech Elective	4
ENG 101 English Comp 1	3
ELC 162 Free Elective	1
TLC 162 Statics & Strength	4
PSY 100 General Psychology	3
TLC 162 Technical Elective	4
ENG 217 Science & Tech Writing	3
ITE 325 Statics & Strengths	4
Technical Elective	3
HLC 162 Humanities Elective	3

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Application at Cal U for Technology Ed	Cr
use for TED 105	3
Technical Elective	4
use for First Year Seminar	1
use for Math	4
Free Elective	3
use for Natural Science	3
use for Major requirement	4
use for Natural Science	4
use for Comm Skills	3
Technical Elective	4
use for Soc Sci	3
sub for Comp II	3
Technical Elective	4
Literature requirement	3

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Microcomputer Electronics Technology	Cr
First Semester	
EET 103 Intro to Electronics	3
EGR 100 Engineering Seminar	1
ENG 101 English Comp I	3
MAT 114 Math for the Techno 1	4
PHY 113 Technical Physics 1	3
SET 105 Technical Computing	3
Second Semester	
MAT 116 Math for the Techno 2	4
MIT 103 Fundamentals of Microproc	3
MIT 110 Electrical Engineering Circu	4
MIT 208 Digital Electronics	3
PHY 114 Technical Physics 2	3
Third Semester	
EET 201 Electronics 1	4
MIT 201 Microcomputer Technology 1	4
MIT 210 Electrical Engineering Circu	4
Social Science - take PSY 101 Intro	3
Fourth Semester	
ENG 106 Report Writing	3
MIT 202 Microcomputer Tech 2	4
Technical Elective	3
Technical Elective	3
Humanities - Literature	3

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Cal U	Cr
Cal U Equivalent	Cr
ITE 130 Intro Circuit Analysis	3
UNI 100 First Year Seminar	1
ENG 101 English Comp I	3
MAT 181 College Algebra	4
PHY 121 General Physics 1	3
CSC 120 Probl Solv/Prog Const	3
Second Semester	
MAT 191 College Trig	4
EET 270 Intro Microprocess Design	3
EET 110 DC Circuits	4
EET 170 Digital Electr Des	3
PHY 122 General Physics 2	3
Third Semester	
EET 210 Linear Electronics I	4
CSC 162 Computer Transfer Cours	4
EET 160 AC Circuits	4
PSY 100 General Psychology	3
Fourth Semester	
ENG 162 English Elective	3
TLC 162 Technology Elective	4
Technical Elective	3
Technical Elective	3
HLC 162 Humanities Elective	3

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Application at Cal U for Technology Ed	Cr
use for First Year Seminar	1
use for Comm Skills	3
use for Math	4
Natural Science	3
Free Elective	3
use for Major requirement	4
use for Natural Science	3
use for Soc Sci	3
sub for Comp II	3
Technical Elective	3
Technical Elective	3
use for Lit requirement	3

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Robotics and Automated Systems Technology		Cr	Cal U		Cr	Application at Cal U for Technology Ed		Cr
First Semester								
EET 103 Introduction to Electronics	3	ITE 130 Intro Circuit Analysis	3	Technical Elective	3			
EGR 100 Engineering Seminar	1	UNI 100 First Year Seminar	1	use for First Year Seminar	1			
ENG 101 English Composition 1	3	ENG 101 English Comp I	3	use for Comm Skills	3			
MAT 114 Mathematics for Techn 1	4	MAT 181 College Algebra	4	use for Math	4			
PHY 113 Technical Physics 1	3	PHY 121 General Physics I	3	use for Natural Science	3			
SET 105 Technical Computing	3	CSC 120 Prob Solv/Prog Cons	3	Free Elective	3			
Second Semester								
MAT 116 Mathematics for Techn 2	4	MAT 191 College Trig	4	use for Major requirement	4			
MET 112 Engineering Materials	4	PHS 135 Chem of Materials	4					
MIT 208 Digital Electronics	3	EET 170 Digital Electr Design	3					
PHY 114 Technical Physics 2	3	PHY 122 General Physics II	3	use for Natural Science	3			
RBT 225 Robotics Control Systems	4	TLC 162 Technology Elective	4	Technical Elective	4			
Third Semester								
MET 170 Fluid Power Systems	4	TLC 162 Technology Elective	4	Technical Elective	4			
MIT 103 Fundamentals of Microproc	3	EET 270 Intro Microprocess Des	3					
RBT 235 Programmable Logic Contr	4	ITE 267 Prog Control Systems	4					
Technical Elective	3	Technical Elective	3					
Social Science - take PSY 101 Intro	3	PSY 100 General Psychology	3	use for Soc Sci	3			
Fourth Semester								
ENG 106 Report Writing	3	ENG 162 English Transfer Course	3	sub English Comp 2	3			
RBT 230 Automated Equipment	3	TLC 162 Technology Elective	3					
Humanities - Literature	3	HLC 162 Humanities Elective	3	use for Lit requirement	3			
Technical Elective	3	Technology Elective	3					
Technical Elective	3	Technology Elective	3					
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CCAC

Science and Engineering Technology	Cr
First Semester	
CHM 109 Intro to Chemistry	4
EGR 100 Engineering Seminar	1
ENG 101 English Comp I	3
MAT 114 Math for the Techn 1	4
SET 105 Technical Computing	3
Second Semester	
EDD 101 Engearing Drawing 1	3
EET 103 Intro to Electronics	3
MAT 116 Mathem for Techn 2	4
ENG 102 English Composition 2	3
OR ENG 106 Report Writing	
Humanities	3
Third Semester	
EDD 120 Intro to CAD	4
MET 112 Engineering Materials	4
MIT 208 Digital Electronics	3
PHY 113 Technical Physics 1	3
Soc Sci: PSY 101 Int to Psych	3
Fourth Semester	
MAT 241 Technical Calculus 1	3
MIT 240 Scientific & Indust Instrume	3
PHY 114 Technical Physics 2	3
SET 110 Project Fabrication	3
Technical Elective	3

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Cal U	Cr
Cal U Equivalent	Cr
CHE 100 Intro to Chemistry	4
UNI First Year Seminar	1
ENG 101 English Comp I	3
MAT 181 College Algebra	4
CSC 120 Prob Siv/Prog Constr	3
Second Semester	
ITE 110 Technical Drawing I	3
ITE 130 Intro Circuit Analysis	3
MAT 191 College Trig	4
ENG 102 English Composition 2	3
OR ENG 162 English Elective	
HLC 162 Humanities Elective	3
Third Semester	
ITE 215 CAD I	4
TED 226 Applic & Process Mater	4
EET 235 Digital Electr Design	3
PHY 121 General Physics	3
PSY 100 General Psychology	3
Fourth Semester	
MAT 281 Calculus I	3
EET 325 Intro Electric Power	3
PHY 122 General Physics 2	3
TLC 162 Technical Elective	3
Technical Elective	3

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Application at Cal U for Technology Ed	Cr
use for Natural Science	4
use for First Year Seminar	1
use for Comm Skills	3
use for Math	4
Free Elective	3
Second Semester	
use for TED 105	3
Technical Elective	3
use for Major requirement	4
use for Comm Skills	3
sub for ENG 102	
use for Humanities	3
Third Semester	
Technical Elective	4
use for TED 226	4
Fourth Semester	
use for Natural Science	3
use for Soc Sci	3
Technical Elective	
Technical Elective	3

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ATTACHMENT B

**California University of Pennsylvania
College of Education and Human Services
Applied Engineering and Technology Department**

Arch Draft & Design to Technology Education - Bachelor of Science in Education (120 credits)

Name: _____ Entry: _____ ID: _____
 Email: _____ Phone: _____

GENERAL EDUCATION (50-51 Credits):

Building a Sense of Community - 1 credit
 EGR 100 Engineering Seminar 1 CCAC

Critical Thinking Skills - 3 credits
 TED 426 Manufacturing Enterprise* 3 Cal U

Communication Skills - 6 credits
 ENG 101 Composition I * 3 CCAC
 ENG 103 Technical Communications 3 CCAC

Public Speaking - 3 credits
 _____ 3 Cal U

Mathematics - 3 credits
 MAT 114 Math for Technologies 1 4 CCAC

Natural Sciences - 7-8 credits**
 PHY 113 Tech Physics 1 3 CCAC
 SCIENCE 3-4 Cal U

Social Sciences - 6 credits
 PSY 101 Intro to Psychology 3 CCAC
 PSY 208 Educational Psychology* 3 Cal U

Humanities - 3 credits
 Humanities - Literature 3 CCAC

Fine Arts - 3 credits
 _____ 3 Cal U

Multicultural Awareness - 3 credits
 EDU 310 Teaching in a Multicultural Society * 3 Cal U

Values - 3 credits
 TED 210 Design & Appropriate Technology * 3 Cal U

Technological Literacy - 6 credits
 TED 302 Energy & Control Systems * 3 Cal U
 TED 316 Structural Design * 3 Cal U

Health & Wellness - 3 credits
 HPE 314 First Aid & Personal Safety * 3 Cal U

Writing Component Courses - 2 courses
 ED 450 and TED 451 listed below in the Professional Preparation
 block are designated Upper-Division Writing Component Courses.

PROFESSIONAL PREPARATION (28 Credits)
 EDU 340 Mainstreaming Exceptional Learners 3 Cal U
 TED 100 Introduction to Technology Education 3 Cal U
 TED 300 Assessment & Instruction in TED 3 Cal U
 TED 450 Teach Technology in Secondary Sch 3 Cal U
 TED 451 Teach Technology in Elementary Sch 3 Cal U
 TED 451 Technology Education Student Teach 10 Cal U
 TED 451 Professional Practices in TED 3 Cal U

MAJOR (39 Credits)

Required Courses:

ITE 250	Introduction to Automation	3	Cal U
MAT 116	Math for Technologies 2	4	CCAC
EDD 101	Engineering Drawing 1	3	CCAC
TED 111	Information Systems	3	Cal U
TED 126	Engineering Materials & Product Design	3	Cal U
TED 226	Apps. & Processing of Engineering Materials	3	Cal U
TED 304	Designs in Bio-Related Technology	3	Cal U
TED 335	Transportation Systems	3	Cal U
TED 346	Digital Communications	3	Cal U
TED 436	Engineering Design & Development	3	Cal U

Technical/Technological Electives - 9 credits

EDD 120	Intro to CAD	4	CCAC
EDD 121	CAD Applications	4	CCAC
MET 211	Strength of Materials	4	CCAC

ELECTIVE (3 Credits)
 EDD 102 Engineering Drawing 2 3 CCAC

Approved Technical/Technological Electives:
 COM 141, 142, 241, 242, THE 141, CSC 120 or above
 Any CET, EET, GCT, GET, ITE, MMT or TED course not already required by
 the major, or any other courses approved by the advisor

*Required courses that must be completed.

**Natural Science: Complete one 4-credit LAB and one LAB or SCIENCE.
 LAB (4 crs): BIO 115, BIO 206, CHE 101, PHY 121
 SCIENCE (3 crs) EAS 163, ENS 101, PHS 120, PHS 137

Admission to Teacher Education - must be approved at 48 - 65 credits
 2.80 GPA overall
 C or better grades in 6 credits of math
 C or better grades in 6 credits of composition/English literature
 C or better grade in TED 100
 Speech and hearing test
 Document Act 34, Act 114 and Act 151 clearances
 Pass Praxis exams in Reading, Writing, Math

Recommendation for Student Teaching - required 1 semester prior
 Due Jun. 1 for Fall, Nov. 1 for Spring
 3.00 GPA overall (at time of application & start of student teaching)
 C or better grade in each TED course
 TB test
 Pass Praxis II TED exam and Fundamental Subjects exam
 Current Act 34, 114 & 151 clearances, valid thru student teaching
 \$1 million liability insurance policy

EXTRA COURSES
 ELC 162 Free Electives 21 CCAC

College of Education and Human Services
Technology Education
Bachelor of Science in Education Degree (123 credits)
Eight Semester Course Sequence

FRESHMAN Semester 1

Prefix	Number	Course	Cr.
ENG	101	English Composition I	3
MAT	181	College Algebra	3
TED	105	Communicating Technical Designs	3
TED	100	Intro to Technology Education	3
TED	126	Engineer. Materials & Prod. Design	3
UNI	100	First Year Seminar	1
Total			16

Semester 2

Prefix	Number	Course	Cr.
ENG	102	English Composition II	3
MAT	191	College Trigonometry	3
TED	111	Information Systems	3
TED	226	Apps. & Process Engineer. Mats.	3
TED	210	Design & Appropriate Technology	3
Total			15

SOPHOMORE Semester 3*

Prefix	Number	Course	Cr.
ITE	250	Intro to Automation	3
PSY	100	General Psychology	3
		General Education	9
Total			15

Semester 4**

Prefix	Number	Course	Cr.
EDU	310	Teaching In Multicultural Society	3
PSY	208	Educational Psychology	3
TED	300	Assessment & Instruction in TED	3
		General Education	7
Total			16

*Praxis exams should be taken during or immediately following the third semester.

**Students should apply for Admission to Teacher Education during the fourth semester.

JUNIOR Semester 5

Prefix	Number	Course	Cr.
EDU	340	Mainstreaming Exceptional Learn	3
TED	302	Energy & Control Systems	3
TED	316	Structural Design	3
TED	335	Transportation Systems	3
		Technical/Technological Elective	3
Total			15

Semester 6

Prefix	Number	Course	Cr.
HPE	314	First Aid & Personal Safety	3
TED	304	Designs in Bio-Related Tech	3
TED	346	Digital Communications	3
		General Education	3
		Technical/Technological Elective	3
Total			15

SENIOR Semester 7

Prefix	Number	Course	Cr.
TED	426	Manufacturing Enterprise	3
TED	436	Engineering Design & Develop	3
TED	450	Teach. Tech-Secondary Sch	3
TED	500	Teach. Tech-Elementary Sch	3
		Technical/Technological Elective	3
Total			15

Semester 8

Prefix	Number	Course	Cr.
TED	461	Technology Education Stud Teach	10
TED	462	Prof Practices in Tech Ed	3
Total			13

Total = 120 Credit Hours (BS Degree)

California University of Pennsylvania
College of Education and Human Services
Applied Engineering and Technology Department
Civil Engineering - Technology Education - Bachelor of Science in Education (120 credits)

Name: _____ Entry: _____ ID: _____
 Email: _____ Phone: _____

GENERAL EDUCATION (50-51 Credits): Crs Grade

Building a Sense of Community - 1 credit
 EGR 100 Engineering Seminar 1 CCAC

Critical Thinking Skills - 3 credits
 TED 426 Manufacturing Enterprise* 3 Cal U

Communication Skills - 6 credits
 ENG 101 Composition I * 3 CCAC
 ENG 102 Composition II * 3 CCAC

Public Speaking - 3 credits
 _____ 3 Cal U

Mathematics - 3 credits
 MAT 114 Math for the Technologies 1 4 CCAC

Natural Sciences - 7-8 credits**
 PHY 141 Physics 1 4 CCAC
 PHY 142 Physics 2 4 CCAC

Social Sciences - 6 credits
 PSY 101 Intro to Psychology * 3 CCAC
 PSY 208 Educational Psychology* 3 Cal U

Humanities - 3 credits
 _____ Any Humanites Elective 3 CCAC

Fine Arts - 3 credits
 _____ 3 Cal U

Multicultural Awareness - 3 credits
 EDU 310 Teaching in a Multicultural Society * 3 Cal U

Values - 3 credits
 TED 210 Design & Appropriate Technology * 3 Cal U

Technological Literacy - 6 credits
 TED 302 Energy & Control Systems * 3 Cal U
 TED 316 Structural Design * 3 Cal U

Health & Wellness - 3 credits
 HPE 314 First Aid & Personal Safety * 3 Cal U

Writing Component Courses - 2 courses
 TED 450 and TED 451 listed below in the Professional Preparation block are designated Upper-Division Writing Component Courses.

PROFESSIONAL PREPARATION (28 Credits)
 EDU 340 Mainstreaming Exceptional Learners 3 Cal U
 TED 100 Introduction to Technology Education 3 Cal U
 TED 300 Assessment & Instruction in TED 3 Cal U
 TED 450 Teach Technology in Secondary Sch 3 Cal U
 TED 451 Teach Technology in Elementary Sch 3 Cal U
 TED 461 Technology Education Student Teach 10 Cal U
 TED 462 Professional Practices in TED 3 Cal U

MAJOR (39 Credits)

Required Courses: Crs Grade

ITE 250 Introduction to Automation 3 Cal U
 MAT116 Math for the Technologies 2 4 CCAC
 EDD 101 Engineering Drawing 1 3 CCAC
 TED 111 Information Systems 3 Cal U
 TED 126 Engineering Materials & Product Design 3 Cal U
 TED 226 Apps. & Processing of Engineering Materials 3 Cal U
 TED 304 Designs in Bio-Related Technology 3 Cal U
 TED 335 Transportation Systems 3 Cal U
 TED 346 Digital Communications 3 Cal U
 TED 436 Engineering Design & Development 3 Cal U

Technical/Technological Electives - 9 credits

EGR 110 Engineering Surveying 4 CCAC
 EDD 120 Intro to CAD 4 CCAC
 MET 211 Strength of Materials 4 CCAC

ELECTIVE (3 Credits)
 CET 202 Soils in Construction 4 CCAC

Approved Technical/Technological Electives:
 COM 141, 142, 241, 242, THE 141, CSC 120 or above
 Any CET, EET, GCT, GET, ITE, MMT or TED course not already required by the major, or any other courses approved by the advisor

*Required courses that must be completed.

**Natural Science: Complete one 4-credit LAB and one LAB or SCIENCE.
 LAB (4 crs): BIO 115, BIO 206, CHE 101, PHY 121
 SCIENCE (3 crs) EAS 163, ENS 101, PHS 120, PHS 137

Admission to Teacher Education - must be approved at 48 - 65 credits
 2.80 GPA overall

C or better grades in 6 credits of math
 C or better grades in 6 credits of composition/English literature
 C or better grade in TED 100
 Speech and hearing test
 Document Act 34, Act 114 and Act 151 clearances
 Pass Praxis exams in Reading, Writing, Math

Recommendation for Student Teaching - required 1 semester prior:
 Due Jun. 1 for Fall, Nov. 1 for Spring
 3.00 GPA overall (at time of application & start of student teaching)
 C or better grade in each TED course
 TB test
 Pass Praxis II TED exam and Fundamental Subjects exam
 Current Act 34, 114 & 151 clearances, valid thru student teaching
 \$1 million liability insurance policy

EXTRA COURSES
 ELC 162 Free Electives 19 CCAC

College of Education and Human Services
Technology Education
Bachelor of Science in Education Degree (123 credits)
Eight Semester Course Sequence

FRESHMAN Semester 1				Semester 2			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
ENG	101	English Composition I	3	ENG	102	English Composition II	3
MAT	181	College Algebra	3	MAT	191	College Trigonometry	3
TED	105	Communicating Technical Designs	3	TED	111	Information Systems	3
TED	100	Intro to Technology Education	3	TED	226	Apps. & Process Engineer. Mats.	3
TED	126	Engineer. Materials & Prod. Design	3	TED	210	Design & Appropriate Technology	3
UNI	100	First Year Seminar	1				
			Total				Total
			16				15

SOPHOMORE Semester 3*				Semester 4**			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
ITE	250	Intro to Automation	3	EDU	310	Teaching in Multicultural Society	3
PSY	100	General Psychology	3	PSY	208	Educational Psychology	3
		General Education	9	TED	300	Assessment & Instruction in TED	3
						General Education	7
			Total				Total
			15				16

*Praxis exams should be taken during or immediately following the third semester.

**Students should apply for Admission to Teacher Education during the fourth semester.

JUNIOR Semester 5				Semester 6			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
EDU	340	Mainstreaming Exceptional Learn	3	HPE	314	First Aid & Personal Safety	3
TED	302	Energy & Control Systems	3	TED	304	Designs in Bio-Related Tech	3
TED	316	Structural Design	3	TED	346	Digital Communications	3
TED	335	Transportation Systems	3			General Education	3
		Technical/Technological Elective	3			Technical/Technological Elective	3
			Total				Total
			15				15

SENIOR Semester 7				Semester 8			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
TED	426	Manufacturing Enterprise	3	TED	461	Technology Education Stud Teach	10
TED	436	Engineering Design & Develop	3	TED	462	Prof Practices in Tech Ed	3
TED	450	Teach. Tech-Secondary Sch	3				
TED	500	Teach. Tech-Elementary Sch	3				
		Technical/Technological Elective	3				
			Total				Total
			15				13

Total = 120 Credit Hours (BS Degree)

California University of Pennsylvania
College of Education and Human Services
Applied Engineering and Technology Department
CADD to Technology Education - Bachelor of Science in Education (120 credits)

Name: _____ Entry: _____ ID: _____
 Email: _____ hone: _____

GENERAL EDUCATION (50-51 Credits): Crs Grade **MAJOR (39 Credits)** Crs Grade

Building a Sense of Community - 1 credit **Required Courses:**

EGR 100 Engineering Seminar 1 CCAC ITE 250 Introduction to Automation 3 Cal U

Critical Thinking Skills - 3 credits MAT 116 Math for Technologies 2 4 CCAC

TED 426 Manufacturing Enterprise* 3 Cal U EDD 101 Engineering Drawing 1 3 CCAC

Communication Skills - 6 credits TED 111 Information Systems 3 Cal U

ENG 101 Composition I * 3 CCAC TED 126 Engineering Materials & Product Design 3 Cal U

ENG 103 Technical Communications 3 CCAC TED 226 Apps. & Processing of Engineering Materials 3 Cal U

Public Speaking - 3 credits TED 304 Designs in Bio-Related Technology 3 Cal U

_____ 3 Cal U TED 335 Transportation Systems 3 Cal U

Mathematics - 3 credits TED 346 Digital Communications 3 Cal U

MAT 114 Math for Technologies 1 4 CCAC TED 436 Engineering Design & Development 3 Cal U

Natural Sciences - 7-8 credits** **Technical/Technological Electives - 9 credits**

PHY 113 Technical Physics 1 3 CCAC EDD 120 Intro to CAD 4 CCAC

SCIENCE 3-4 Cal U EDD 102 Engineering Drawing 2 3 CCAC

Social Sciences - 6 credits EDD 221 Parametric Modeling II 3 CCAC

PSY 101 Intro to Psychology 3 CCAC **ELECTIVE (3 Credits)**

PSY 208 Educational Psychology* 3 Cal U SET 105 Technical Computing 3 CCAC

Humanities - 3 credits **Approved Technical/Technological Electives:**

Humanities - Literature 3 CCAC COM 141, 142, 241, 242, THE 141, CSC 120 or above

Fine Arts - 3 credits Any CET, EET, GCT, GET, ITE, MMT or TED course not already required by the major, or any other courses approved by the advisor

_____ 3 Cal U ***Required courses that must be completed.**

Multicultural Awareness - 3 credits ****Natural Science: Complete one 4-credit LAB & one LAB or SCIENCE.**

EDU 310 Teaching in a Multicultural Society* 3 Cal U LAB (4 crs): BIO 115, BIO 206, CHE 101, PHY 121

Values - 3 credits SCIENCE (3 crs) EAS 163, ENS 101, PHS 120, PHS 137

TED 210 Design & Appropriate Technology* 3 Cal U **Admission to Teacher Education - must be approved at 48 - 65 credits**

Technological Literacy - 6 credits **2.80 GPA overall**

TED 302 Energy & Control Systems* 3 Cal U **C or better grades in 6 credits of math**

TED 316 Structural Design* 3 Cal U **C or better grades in 6 credits of composition/English literature**

Health & Wellness - 3 credits **C or better grade in TED 100**

HPE 314 First Aid & Personal Safety* 3 Cal U **Speech and hearing test**

Writing Component Courses - 2 courses **Document Act 34, Act 114 and Act 151 clearances**

TED 450 and TED 451 listed below in the Professional Preparation **Pass Praxis exams in Reading, Writing, Math**

block are designated Upper-Division Writing Component Courses. **Recommendation for Student Teaching - required 1 semester prior**

PROFESSIONAL PREPARATION (28 Credits) **Due Jun. 1 for Fall, Nov. 1 for Spring**

EDU 340 Mainstreaming Exceptional Learners 3 Cal U **3.00 GPA overall (at time of application & start of student teaching)**

TED 100 Introduction to Technology Education 3 Cal U **C or better grade in each TED course**

TED 300 Assessment & Instruction in TED 3 Cal U **TB test**

TED 450 Teach Technology in Secondary Sch 3 Cal U **Pass Praxis II TED exam and Fundamental Subjects exam**

TED 451 Teach Technology in Elementary Sch 3 Cal U **Current Act 34, 114 & 151 clearances, valid thru student teaching**

TED 461 Technology Education Student Teach 10 Cal U **\$1 million liability insurance policy**

TED 462 Professional Practices in TED 3 Cal U **EXTRA COURSES**

_____ ELC 162 Free Electives 22 CCAC

_____ **TED BS SP 07**

College of Education and Human Services
Technology Education
Bachelor of Science in Education Degree (123 credits)
Eight Semester Course Sequence

FRESHMAN Semester 1				Semester 2			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
ENG	101	English Composition I	3	ENG	102	English Composition II	3
MAT	181	College Algebra	3	MAT	191	College Trigonometry	3
TED	105	Communicating Technical Designs	3	TED	111	Information Systems	3
TED	100	Intro to Technology Education	3	TED	226	Apps. & Process Engineer. Mats.	3
TED	126	Engineer. Materials & Prod. Design	3	TED	210	Design & Appropriate Technology	3
UNI	100	First Year Seminar	1				
Total			16	Total			15

SOPHOMORE Semester 3*				Semester 4**			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
ITE	250	Intro to Automation	3	EDU	310	Teaching in Multicultural Society	3
PSY	100	General Psychology	3	PSY	208	Educational Psychology	3
		General Education	9	TED	300	Assessment & Instruction in TED	3
						General Education	7
Total			15	Total			16

*Praxis exams should be taken during or immediately following the third semester.
 **Students should apply for Admission to Teacher Education during the fourth semester.

JUNIOR Semester 5				Semester 6			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
EDU	340	Mainstreaming Exceptional Learn	3	HPE	314	First Aid & Personal Safety	3
TED	302	Energy & Control Systems	3	TED	304	Designs in Bio-Related Tech	3
TED	316	Structural Design	3	TED	346	Digital Communications	3
TED	335	Transportation Systems	3			General Education	3
		Technical/Technological Elective	3			Technical/Technological Elective	3
Total			15	Total			15

SENIOR Semester 7				Semester 8			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
TED	426	Manufacturing Enterprise	3	TED	461	Technology Education Stud Teach	10
TED	436	Engineering Design & Develop	3	TED	462	Prof Practices in Tech Ed	3
TED	450	Teach. Tech-Secondary Sch	3				
TED	500	Teach. Tech-Elementary Sch	3				
		Technical/Technological Elective	3				
Total			15	Total			13

Total = 120 Credit Hours (BS Degree)

**California University of Pennsylvania
College of Education and Human Services
Applied Engineering and Technology Department**

Manuf Tech Controls to Technology Education - Bachelor of Science in Education (120 credits)

Name: _____ Entry: _____ ID: _____
 Email: _____ hone: _____

GENERAL EDUCATION (50-51 Credits):

Building a Sense of Community - 1 credit

EGR 100 Engineering Seminar 1 CCAC

Critical Thinking Skills - 3 credits

TED 426 Manufacturing Enterprise* 3 Cal U

Communication Skills - 6 credits

ENG 101 Composition I * 3 CCAC

ENG 103 Technical Communications 3 CCAC

Public Speaking - 3 credits

_____ 3 Cal U

Mathematics - 3 credits

MAT 114 Math for Technologies 1 4 CCAC

Natural Sciences - 7-8 credits**

PHY 113 Technical Physics 1 3 CCAC

MET 112 Engineering Materials 4 CCAC

Social Sciences - 6 credits

PSY 101 Intro to Psychology 3 CCAC

PSY 208 Educational Psychology* 3 Cal U

Humanities - 3 credits

_____ Humanities - Literature 3 CCAC

Fine Arts - 3 credits

_____ 3 Cal U

Multicultural Awareness - 3 credits

EDU 310 Teaching in a Multicultural Society * 3 Cal U

Values - 3 credits

TED 210 Design & Appropriate Technology * 3 Cal U

Technological Literacy - 6 credits

TED 302 Energy & Control Systems * 3 Cal U

TED 316 Structural Design * 3 Cal U

Health & Wellness - 3 credits

HPE 314 First Aid & Personal Safety * 3 Cal U

Writing Component Courses - 2 courses

TED 450 and TED 451 listed below in the Professional Preparation block are designated Upper-Division Writing Component Courses.

PROFESSIONAL PREPARATION (28 Credits)

EDU 340 Mainstreaming Exceptional Learners 3 Cal U

TED 100 Introduction to Technology Education 3 Cal U

TED 300 Assessment & Instruction in TED 3 Cal U

TED 450 Teach Technology in Secondary Sch 3 Cal U

TED 451 Teach Technology in Elementary Sch 3 Cal U

TED 461 Technology Education Student Teach 10 Cal U

TED 462 Professional Practices in TED 3 Cal U

MAJOR (39 Credits)

Required Courses:

RBT 225 Robotic Controls 4 CCAC

MAT 116 Math for Technologies 2 4 CCAC

EDD 101 Engineering Drawing 1 3 CCAC

TED 111 Information Systems 3 Cal U

TED 126 Engineering Materials & Product Design 3 Cal U

TED 226 Apps. & Processing of Engineering Materials 3 Cal U

TED 304 Designs in Bio-Related Technology 3 Cal U

TED 335 Transportation Systems 3 Cal U

TED 346 Digital Communications 3 Cal U

TED 436 Engineering Design & Development 3 Cal U

Technical/Technological Electives - 8 credits

EET 103 Intro to Electronics 3 CCAC

SET 105 Technical Computing 3 CCAC

EDD 120 Intro to CAD 4 CCAC

ELECTIVE (3 Credits)

MIT 103 Fund of Microprocessors 3 CCAC

Approved Technical/Technological Electives:
 COM 141, 142, 241, 242, THE 141, CSC 120 or above
 Any CET, EET, GCT, GET, ITE, MMT or TED course not already required by the major, or any other courses approved by the advisor

*Required courses that must be completed.

**Natural Science: Complete one 4-credit LAB & one LAB or SCIENCE.
 LAB (4 crs): BIO 115, BIO 206, CHE 101, PHY 121
 SCIENCE (3 crs) EAS 163, ENS 101, PHS 120, PHS 137

Admission to Teacher Education - must be approved at 48 - 65 credits
 2.80 GPA overall
 C or better grades in 6 credits of math
 C or better grades in 6 credits of composition/English literature
 C or better grade in TED 100
 Speech and hearing test
 Document Act 34, Act 114 and Act 151 clearances
 Pass Praxis exams in Reading, Writing, Math

Recommendation for Student Teaching - required 1 semester prior
 Due Jun. 1 for Fall, Nov. 1 for Spring
 3.00 GPA overall (at time of application & start of student teaching)
 C or better grade in each TED course
 TB test
 Pass Praxis II TED exam and Fundamental Subjects exam
 Current Act 34, 114 & 151 clearances, valid thru student teaching
 \$1 million liability insurance policy

EXTRA COURSES

ELC 162 Free Electives

TED BS SP 07

17 CCAC

College of Education and Human Services
Technology Education
Bachelor of Science in Education Degree (123 credits)
Eight Semester Course Sequence

FRESHMAN Semester 1				Semester 2			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
ENG	101	English Composition I	3	ENG	102	English Composition II	3
MAT	181	College Algebra	3	MAT	191	College Trigonometry	3
TED	105	Communicating Technical Designs	3	TED	111	Information Systems	3
TED	100	Intro to Technology Education	3	TED	226	Apps. & Process Engineer. Mats.	3
TED	126	Engineer. Materials & Prod. Design	3	TED	210	Design & Appropriate Technology	3
UNI	100	First Year Seminar	1				
			Total				Total
			16				15

SOPHOMORE Semester 3*				Semester 4**			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
ITE	250	Intro to Automation	3	EDU	310	Teaching in Multicultural Society	3
PSY	100	General Psychology	3	PSY	208	Educational Psychology	3
		General Education	9	TED	300	Assessment & Instruction in TED	3
						General Education	7
			Total				Total
			15				16

*Praxis exams should be taken during or immediately following the third semester.

**Students should apply for Admission to Teacher Education during the fourth semester.

JUNIOR Semester 5				Semester 6			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
EDU	340	Mainstreaming Exceptional Learn	3	HPE	314	First Aid & Personal Safety	3
TED	302	Energy & Control Systems	3	TED	304	Designs in Bio-Related Tech	3
TED	316	Structural Design	3	TED	346	Digital Communications	3
TED	335	Transportation Systems	3			General Education	3
		Technical/Technological Elective	3			Technical/Technological Elective	3
			Total				Total
			15				15

SENIOR Semester 7				Semester 8			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
TED	426	Manufacturing Enterprise	3	TED	461	Technology Education Stud Teach	10
TED	436	Engineering Design & Develop	3	TED	462	Prof Practices in Tech Ed	3
TED	450	Teach. Tech-Secondary Sch	3				
TED	500	Teach. Tech-Elementary Sch	3				
		Technical/Technological Elective	3				
			Total				Total
			15				13

Total = 120 Credit Hours (BS Degree)

**California University of Pennsylvania
College of Education and Human Services
Applied Engineering and Technology Department**

Manuf Tech Machining to Technology Education - Bachelor of Science in Education (120 credits)

Name: _____ Entry: _____ ID: _____
Email: _____ Phone: _____

GENERAL EDUCATION (50-51 Credits):

Building a Sense of Community - 1 credit
EGR 100 Engineering Seminar 1 CCAC

Critical Thinking Skills - 3 credits
TED 428 Manufacturing Enterprise* 3 Cal U

Communication Skills - 6 credits
ENG 101 Composition I * 3 CCAC
ENG 103 Technical Communications 3 CCAC

Public Speaking - 3 credits
_____ 3 Cal U

Mathematics - 3 credits
MAT 114 Math for Technologies 1 4 CCAC

Natural Sciences - 7-8 credits**
PHY 113 Technical Physics 1 3 CCAC
MET 112 Engineering Materials 4 CCAC

Social Sciences - 6 credits
PSY 101 Intro to Psychology 3 CCAC
PSY 208 Educational Psychology* 3 Cal U

Humanities - 3 credits
_____ Humanities - Literature 3 CCAC

Fine Arts - 3 credits
_____ 3 Cal U

Multicultural Awareness - 3 credits
EDU 310 Teaching in a Multicultural Society * 3 Cal U

Values - 3 credits
TED 210 Design & Appropriate Technology * 3 Cal U

Technological Literacy - 6 credits
TED 302 Energy & Control Systems * 3 Cal U
TED 316 Structural Design * 3 Cal U

Health & Wellness - 3 credits
HPE 314 First Aid & Personal Safety * 3 Cal U

Writing Component Courses - 2 courses
TED 450 and TED 451 listed below in the Professional Preparation block are designated Upper-Division Writing Component Courses.

MAJOR (39 Credits)

Required Courses:

Crs	Grade	Course	Crs	Grade
3	Cal U	ITE 250 Intro to Automation	3	Cal U
4	CCAC	MAT 116 Math for Technologies 2	4	CCAC
4	CCAC	EDD 120 Intro to CAD	4	CCAC
3	Cal U	TED 111 Information Systems	3	Cal U
3	Cal U	TED 126 Engineering Materials & Product Design	3	Cal U
3	Cal U	TED 226 Apps.& Processing of Engineering Materials	3	Cal U
3	Cal U	TED 304 Designs in Bio-Related Technology	3	Cal U
3	Cal U	TED 335 Transportation Systems	3	Cal U
3	Cal U	TED 346 Digital Communications	3	Cal U
3	Cal U	TED 436 Engineering Design & Development	3	Cal U

Technical/Technological Electives - 9 credits

3	CCAC	EET 103 Intro to Electronics	3	CCAC
3	CCAC	MET 141 Intro to Machining	3	CCAC
3	CCAC	EDD 101 Engineering Drawing 1	3	CCAC

ELECTIVE (3 Credits)

3	CCAC	SET 105 Technical Computing	3	CCAC
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Approved Technical/Technological Electives:

COM 141, 142, 241, 242, THE 141, CSC 120 or above
Any CET, EET, GCT, GET, ITE, MMT or TED course not already required by the major, or any other courses approved by the advisor

*Required courses that must be completed.

**Natural Science: Complete one 4-credit LAB and one LAB or SCIENCE.

LAB (4 crs): BIO 115, BIO 206, CHE 101, PHY 121
SCIENCE (3 crs) EAS 163, ENS 101, PHS 120, PHS 137

Admission to Teacher Education - must be approved at 48 - 65 credits
2.80 GPA overall

C or better grades in 6 credits of math
C or better grades in 6 credits of composition/English literature
C or better grade in TED 100

Speech and hearing test
Document Act 34, Act 114 and Act 151 clearances
Pass Praxis exams in Reading, Writing, Math

Recommendation for Student Teaching - required 1 semester prior
Due Jun. 1 for Fall, Nov. 1 for Spring
3.00 GPA overall (at time of application & start of student teaching)
C or better grade in each TED course
TB test

Pass Praxis II TED exam and Fundamental Subjects exam
Current Act 34, 114 & 151 clearances, valid thru student teaching
\$1 million liability insurance policy

PROFESSIONAL PREPARATION (28 Credits)

3	Cal U	EDU 340 Mainstreaming Exceptional Learners	3	Cal U
3	Cal U	TED 100 Introduction to Technology Education	3	Cal U
3	Cal U	TED 300 Assessment & Instruction in TED	3	Cal U
3	Cal U	TED 450 Teach Technology in Secondary Sch	3	Cal U
3	Cal U	TED 451 Teach Technology in Elementary Sch	3	Cal U
10	Cal U	TED 461 Technology Education Student Teach	10	Cal U
3	Cal U	TED 462 Professional Practices in TED	3	Cal U

EXTRA COURSES
ELC 162 Free Electives

19 CCAC

TED BS SP07

College of Education and Human Services
Technology Education
Bachelor of Science in Education Degree (123 credits)
Eight Semester Course Sequence

FRESHMAN Semester 1				Semester 2			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
ENG	101	English Composition I	3	ENG	102	English Composition II	3
MAT	181	College Algebra	3	MAT	191	College Trigonometry	3
TED	105	Communicating Technical Designs	3	TED	111	Information Systems	3
TED	100	Intro to Technology Education	3	TED	226	Apps. & Process Engineer. Mats.	3
TED	126	Engineer. Materials & Prod. Design	3	TED	210	Design & Appropriate Technology	3
UNI	100	First Year Seminar	1				
Total			16	Total			15

SOPHOMORE Semester 3*				Semester 4**			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
ITE	250	Intro to Automation	3	EDU	310	Teaching in Multicultural Society	3
PSY	100	General Psychology	3	PSY	208	Educational Psychology	3
		General Education	9	TED	300	Assessment & Instruction in TED	3
						General Education	7
Total			15	Total			16

*Praxis exams should be taken during or immediately following the third semester.

**Students should apply for Admission to Teacher Education during the fourth semester.

JUNIOR Semester 5				Semester 6			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
EDU	340	Mainstreaming Exceptional Learn	3	HPE	314	First Aid & Personal Safety	3
TED	302	Energy & Control Systems	3	TED	304	Designs in Bio-Related Tech	3
TED	316	Structural Design	3	TED	346	Digital Communications	3
TED	335	Transportation Systems	3			General Education	3
		Technical/Technological Elective	3			Technical/Technological Elective	3
Total			15	Total			15

SENIOR Semester 7				Semester 8			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
TED	426	Manufacturing Enterprise	3	TED	461	Technology Education Stud Teach	10
TED	436	Engineering Design & Develop	3	TED	462	Prof Practices in Tech Ed	3
TED	450	Teach. Tech-Secondary Sch	3				
TED	500	Teach. Tech-Elementary Sch	3				
		Technical/Technological Elective	3				
Total			15	Total			13

Total = 120 Credit Hours (BS Degree)

**California University of Pennsylvania
College of Education and Human Services
Applied Engineering and Technology Department**

Manuf Tech Nano to Technology Education - Bachelor of Science in Education (120 credits)

Name: _____ Entry: _____ ID: _____
 Email: _____ Phone: _____

GENERAL EDUCATION (50-51 Credits): Crs Grade

Building a Sense of Community - 1 credit
 EGR 100 Engineering Seminar 1 CCAC

Critical Thinking Skills - 3 credits
 TED 426 Manufacturing Enterprise* 3 Cal U

Communication Skills - 6 credits
 ENG 101 Composition I * 3 CCAC
 ENG 103 Technical Communications 3 CCAC

Public Speaking - 3 credits
 _____ 3 Cal U

Mathematics - 3 credits
 MAT 114 Math for Technologies 1 4 CCAC

Natural Sciences - 7-8 credits**
 PHY 113 Technical Physics 1 3 CCAC
 MET 112 Engineering Materials 4 CCAC

Social Sciences - 6 credits
 PSY 101 Intro to Psychology 3 CCAC
 PSY 208 Educational Psychology* 3 Cal U

Humanities - 3 credits
 _____ Humanities - Literature 3 CCAC

Fine Arts - 3 credits
 _____ 3 Cal U

Multicultural Awareness - 3 credits
 EDU 310 Teaching in a Multicultural Society * 3 Cal U

Values - 3 credits
 TED 210 Design & Appropriate Technology * 3 Cal U

Technological Literacy - 6 credits
 TED 302 Energy & Control Systems * 3 Cal U
 TED 316 Structural Design * 3 Cal U

Health & Wellness - 3 credits
 HPE 314 First Aid & Personal Safety * 3 Cal U

Writing Component Courses - 2 courses
 TED 450 and TED 451 listed below in the Professional Preparation block are designated Upper-Division Writing Component Courses.

PROFESSIONAL PREPARATION (28 Credits)
 EDU 340 Mainstreaming Exceptional Learners 3 Cal U
 TED 100 Introduction to Technology Education 3 Cal U
 TED 300 Assessment & Instruction in TED 3 Cal U
 TED 450 Teach Technology in Secondary Sch 3 Cal U
 TED 451 Teach Technology in Elementary Sch 3 Cal U
 TED 461 Technology Education Student Teach 10 Cal U
 TED 462 Professional Practices in TED 3 Cal U

MAJOR (39 Credits)

Required Courses:
 ITE 250 Intro to Automation 3 Cal U
 MAT 116 Math for Technologies 2 4 CCAC
 TED 105 Communicating Technical Designs 3 Cal U
 TED 111 Information Systems 3 Cal U
 TED 126 Engineering Materials & Product Design 3 Cal U
 TED 226 Apps.& Processing of Engineering Materials 3 Cal U
 TED 304 Designs in Bio-Related Technology 3 Cal U
 TED 335 Transportation Systems 3 Cal U
 TED 346 Digital Communications 3 Cal U
 TED 436 Engineering Design & Development 3 Cal U

Technical/Technological Electives - 9 credits
 EET 103 Intro to Electronics 3 CCAC
 _____ 3 Cal U
 _____ 3 Cal U

ELECTIVE (3 Credits)
 SET 105 Technical Computing 3 CCAC

Approved Technical/Technological Electives:
 COM 141, 142, 241, 242, THE 141, CSC 120 or above
 Any CET, EET, GCT, GET, ITE, MMT or TED course not already required by the major, or any other courses approved by the advisor

*Required courses that must be completed.
 **Natural Science: Complete one 4-credit LAB and one LAB or SCIENCE.
 LAB (4 crs): BIO 115, BIO 206, CHE 101, PHY 121
 SCIENCE (3 crs) EAS 163, ENS 101, PHS 120, PHS 137

Admission to Teacher Education - must be approved at 48 - 65 credits
 2.80 GPA overall
 C or better grades in 6 credits of math
 C or better grades in 6 credits of composition/English literature
 C or better grade in TED 100
 Speech and hearing test
 Document Act 34, Act 114 and Act 151 clearances
 Pass Praxis exams in Reading, Writing, Math
 Recommendation for Student Teaching - required 1 semester prior
 Due Jun. 1 for Fall, Nov. 1 for Spring
 3.00 GPA overall (at time of application & start of student teaching)
 C or better grade in each TED course
 TB test
 Pass Praxis II TED exam and Fundamental Subjects exam
 Current Act 34, 114 & 151 clearances, valid thru student teaching
 \$1 million liability insurance policy

EXTRA COURSES
 ELC 162 Free Electives 32 CCAC

TED BS SP07

College of Education and Human Services
Technology Education
Bachelor of Science in Education Degree (123 credits)
Eight Semester Course Sequence

FRESHMAN Semester 1				Semester 2			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
ENG	101	English Composition I	3	ENG	102	English Composition II	3
MAT	181	College Algebra	3	MAT	191	College Trigonometry	3
TED	105	Communicating Technical Designs	3	TED	111	Information Systems	3
TED	100	Intro to Technology Education	3	TED	226	Apps. & Process Engineer. Mats.	3
TED	126	Engineer. Materials & Prod. Design	3	TED	210	Design & Appropriate Technology	3
UNI	100	First Year Seminar	1				
Total			16	Total			15

SOPHOMORE Semester 3*				Semester 4**			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
ITE	250	Intro to Automation	3	EDU	310	Teaching in Multicultural Society	3
PSY	100	General Psychology	3	PSY	208	Educational Psychology	3
		General Education	9	TED	300	Assessment & Instruction in TED	3
						General Education	7
Total			15	Total			16

*Praxis exams should be taken during or immediately following the third semester.

**Students should apply for Admission to Teacher Education during the fourth semester.

JUNIOR Semester 5				Semester 6			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
EDU	340	Mainstreaming Exceptional Learn	3	HPE	314	First Aid & Personal Safety	3
TED	302	Energy & Control Systems	3	TED	304	Designs in Bio-Related Tech	3
TED	316	Structural Design	3	TED	346	Digital Communications	3
TED	335	Transportation Systems	3			General Education	3
		Technical/Technological Elective	3			Technical/Technological Elective	3
Total			15	Total			15

SENIOR Semester 7				Semester 8			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
TED	426	Manufacturing Enterprise	3	TED	461	Technology Education Stud Teach	10
TED	436	Engineering Design & Develop	3	TED	462	Prof Practices in Tech Ed	3
TED	450	Teach. Tech-Secondary Sch	3				
TED	500	Teach. Tech-Elementary Sch	3				
		Technical/Technological Elective	3				
Total			15	Total			13

Total = 120 Credit Hours (BS Degree)

California University of Pennsylvania
College of Education and Human Services
Applied Engineering and Technology Department

Manuf Tech Weld to Technology Education - Bachelor of Science in Education (120 credits)

Name: _____ Entry: _____ ID: _____
 Email: _____ Phone: _____

GENERAL EDUCATION (50-51 Credits):	Crs	Grade	MAJOR (39 Credits)	Crs	Grade
Building a Sense of Community - 1 credit			Required Courses:		
<u>EGR 100</u>	<u>1</u>	<u>CCAC</u>	ITE 250 Introduction to Automation	3	<u>Cal U</u>
			MAT116 Math for the Technologies 2	4	<u>CCAC</u>
Critical Thinking Skills - 3 credits			EDD 120 Intro to CAD	4	<u>CCAC</u>
<u>TED 426</u>	<u>3</u>	<u>Cal U</u>	TED 111 Information Systems	3	<u>Cal U</u>
Communication Skills - 6 credits			TED 126 Engineering Materials & Product Design	3	<u>Cal U</u>
<u>ENG 101</u>	<u>3</u>	<u>CCAC</u>	TED 226 Apps. & Processing of Engineering Materials	3	<u>Cal U</u>
<u>ENG 103</u>	<u>3</u>	<u>CCAC</u>	TED 304 Designs in Bio-Related Technology	3	<u>Cal U</u>
Public Speaking - 3 credits			TED 335 Transportation Systems	3	<u>Cal U</u>
	<u>3</u>	<u>Cal U</u>	TED 346 Digital Communications	3	<u>Cal U</u>
Mathematics - 3 credits			TED 436 Engineering Design & Development	3	<u>Cal U</u>
<u>MAT 114</u>	<u>4</u>	<u>CCAC</u>	Technical/Technological Electives - 9 credits		
Natural Sciences - 7-8 credits**			EET 130 Intro to Electronics	3	<u>CCAC</u>
<u>PHY 113</u>	<u>3</u>	<u>CCAC</u>	EDD 101 Engineering Drawing 1	3	<u>CCAC</u>
<u>MET 112</u>	<u>4</u>	<u>CCAC</u>	MET 200 Meteorology	3	<u>CCAC</u>
Social Sciences - 6 credits			ELECTIVE (3 Credits)		
<u>PSY 101</u>	<u>3</u>	<u>CCAC</u>	WLC 101 Welding Fundamentals	3	<u>CCAC</u>
<u>PSY 208</u>	<u>3</u>	<u>Cal U</u>	Approved Technical/Technological Electives:		
Humanities - 3 credits			COM 141, 142, 241, 242, THE 141, CSC 120 or above		
<u>Any Humanities Literature Course</u>	<u>3</u>	<u>CCAC</u>	Any CET, EET, GCT, GET, ITE, MMT or TED course not already required by the major, or any other courses approved by the advisor		
Fine Arts - 3 credits			*Required courses that must be completed.		
	<u>3</u>	<u>Cal U</u>	**Natural Science: Complete one 4-credit LAB and one LAB or SCIENCE.		
Multicultural Awareness - 3 credits			LAB (4 crs): BIO 115, BIO 206, CHE 101, PHY 121		
<u>EDU 310</u>	<u>3</u>	<u>Cal U</u>	SCIENCE (3 crs) EAS 163, ENS 101, PHS 120, PHS 137		
Values - 3 credits			Admission to Teacher Education - must be approved at 48 - 65 credits		
<u>TED 210</u>	<u>3</u>	<u>Cal U</u>	2.80 GPA overall		
Technological Literacy - 6 credits			C or better grades in 6 credits of math		
<u>TED 302</u>	<u>3</u>	<u>Cal U</u>	C or better grades in 6 credits of composition/English literature		
<u>TED 316</u>	<u>3</u>	<u>Cal U</u>	C or better grade in TED 100		
Health & Wellness - 3 credits			Speech and hearing test		
<u>HPE 314</u>	<u>3</u>	<u>Cal U</u>	Document Act 34, Act 114 and Act 151 clearances		
Writing Component Courses - 2 courses			Pass Praxis exams in Reading, Writing, Math		
TED 450 and TED 451 listed below in the Professional Preparation block are designated Upper-Division Writing Component Courses.			Recommendation for Student Teaching - required 1 semester prior		
PROFESSIONAL PREPARATION (28 Credits)			Due Jun. 1 for Fall, Nov. 1 for Spring		
<u>EDU 340</u>	<u>3</u>	<u>Cal U</u>	3.00 GPA overall (at time of application & start of student teaching)		
<u>TED 100</u>	<u>3</u>	<u>Cal U</u>	C or better grade in each TED course		
<u>TED 300</u>	<u>3</u>	<u>Cal U</u>	TB test		
<u>TED 450</u>	<u>3</u>	<u>Cal U</u>	Pass Praxis II TED exam and Fundamental Subjects exam		
<u>TED 451</u>	<u>3</u>	<u>Cal U</u>	Current Act 34, 114 & 151 clearances, valid thru student teaching		
<u>TED 461</u>	<u>10</u>	<u>Cal U</u>	\$1 million liability insurance policy		
<u>TED 462</u>	<u>3</u>	<u>Cal U</u>			
			EXTRA COURSES		
			ELC 162 Free Electives		
			20 CCAC		
			TED BS SP07		

College of Education and Human Services
Technology Education
Bachelor of Science in Education Degree (123 credits)
Eight Semester Course Sequence

FRESHMAN Semester 1				Semester 2			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
ENG	101	English Composition I	3	ENG	102	English Composition II	3
MAT	181	College Algebra	3	MAT	191	College Trigonometry	3
TED	105	Communicating Technical Designs	3	TED	111	Information Systems	3
TED	100	Intro to Technology Education	3	TED	226	Apps. & Process Engineer. Mats.	3
TED	126	Engineer. Materials & Prod. Design	3	TED	210	Design & Appropriate Technology	3
UNI	100	First Year Seminar	1				
Total			16	Total			15

SOPHOMORE Semester 3*				Semester 4**			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
ITE	250	Intro to Automation	3	EDU	310	Teaching in Multicultural Society	3
PSY	100	General Psychology	3	PSY	208	Educational Psychology	3
		General Education	9	TED	300	Assessment & Instruction in TED	3
						General Education	7
Total			15	Total			16

*Praxis exams should be taken during or immediately following the third semester.

**Students should apply for Admission to Teacher Education during the fourth semester.

JUNIOR Semester 5				Semester 6			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
EDU	340	Mainstreaming Exceptional Learn	3	HPE	314	First Aid & Personal Safety	3
TED	302	Energy & Control Systems	3	TED	304	Designs in Bio-Related Tech	3
TED	316	Structural Design	3	TED	346	Digital Communications	3
TED	335	Transportation Systems	3			General Education	3
		Technical/Technological Elective	3			Technical/Technological Elective	3
Total			15	Total			15

SENIOR Semester 7				Semester 8			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
TED	426	Manufacturing Enterprise	3	TED	461	Technology Education Stud Teach	10
TED	436	Engineering Design & Develop	3	TED	462	Prof Practices in Tech Ed	3
TED	450	Teach. Tech-Secondary Sch	3				
TED	500	Teach. Tech-Elementary Sch	3				
		Technical/Technological Elective	3				
Total			15	Total			13

Total = 120 Credit Hours (BS Degree)

California University of Pennsylvania
College of Education and Human Services
Applied Engineering and Technology Department

Mech Drf & Des to Technology Education - Bachelor of Science in Education (120 credits)

Name: _____ Entry: _____ ID: _____
 Email: _____ Phone: _____

GENERAL EDUCATION (50-51 Credits):		Crs	Grade	MAJOR (39 Credits)		Crs	Grade
Building a Sense of Community - 1 credit				Required Courses:			
<u>EGR 100</u>	<u>Engineering Seminar</u>	1	<u>CCAC</u>	<u>ITE 250</u>	<u>Introduction to Automation</u>	3	<u>_____</u>
Critical Thinking Skills - 3 credits				<u>MAT116</u>	<u>Math for the Technologies 2</u>	4	<u>CCAC</u>
<u>TED 426</u>	<u>Manufacturing Enterprise*</u>	3	<u>Cal U</u>	<u>EDD 101</u>	<u>Engineering Drawing 1</u>	3	<u>CCAC</u>
Communication Skills - 6 credits				<u>TED 111</u>	<u>Information Systems</u>	3	<u>_____</u>
<u>ENG 101</u>	<u>Composition I *</u>	3	<u>CCAC</u>	<u>TED 126</u>	<u>Engineering Materials & Product Design</u>	3	<u>_____</u>
<u>ENG 103</u>	<u>Technical Communication</u>	3	<u>CCAC</u>	<u>TED 226</u>	<u>Apps. & Processing of Engineering Materials</u>	3	<u>_____</u>
Public Speaking - 3 credits				<u>TED 304</u>	<u>Designs in Bio-Related Technology</u>	3	<u>_____</u>
		3	<u>Cal U</u>	<u>TED 335</u>	<u>Transportation Systems</u>	3	<u>_____</u>
Mathematics - 3 credits				<u>TED 346</u>	<u>Digital Communications</u>	3	<u>_____</u>
<u>MAT 114</u>	<u>Math for the Technologies 1</u>	4	<u>CCAC</u>	<u>TED 436</u>	<u>Engineering Design & Development</u>	3	<u>_____</u>
Natural Sciences - 7-8 credits**				Technical/Technological Electives - 9 credits			
<u>PHY 113</u>	<u>Technical Physics 1</u>	3	<u>CCAC</u>	<u>EDD 120</u>	<u>Intro to CAD</u>	4	<u>CCAC</u>
<u>MET 112</u>	<u>Engineering Materials</u>	4	<u>CCAC</u>	<u>MET 150</u>	<u>Statics</u>	4	<u>CCAC</u>
Social Sciences - 6 credits				<u>MET 211</u>	<u>Strength of Materials</u>	4	<u>CCAC</u>
<u>PSY 101</u>	<u>Intro to Psychology *</u>	3	<u>CCAC</u>	ELECTIVE (3 Credits)			
<u>PSY 208</u>	<u>Educational Psychology*</u>	3	<u>Cal U</u>	<u>SET 105</u>	<u>Technical Computing</u>	3	<u>CCAC</u>
Humanities - 3 credits				Approved Technical/Technological Electives:			
	<u>Any Humanities Literature Course</u>	3	<u>CCAC</u>	COM 141, 142, 241, 242, THE 141, CSC 120 or above			
Fine Arts - 3 credits				Any CET, EET, GCT, GET, ITE, MMT or TED course not already required by the major, or any other courses approved by the advisor			
		3	<u>Cal U</u>	*Required courses that must be completed.			
Multicultural Awareness - 3 credits				**Natural Science: Complete one 4-credit LAB and one LAB or SCIENCE.			
<u>EDU 310</u>	<u>Teaching in a Multicultural Society *</u>	3	<u>Cal U</u>	LAB (4 crs): BIO 115, BIO 206, CHE 101, PHY 121			
Values - 3 credits				SCIENCE (3 crs) EAS 163, ENS 101, PHS 120, PHS 137			
<u>TED 210</u>	<u>Design & Appropriate Technology *</u>	3	<u>Cal U</u>	Admission to Teacher Education - must be approved at 48 - 65 credits			
Technological Literacy - 6 credits				2.80 GPA overall			
<u>TED 302</u>	<u>Energy & Control Systems *</u>	3	<u>Cal U</u>	C or better grades in 6 credits of math			
<u>TED 316</u>	<u>Structural Design *</u>	3	<u>Cal U</u>	C or better grades in 6 credits of composition/English literature			
Health & Wellness - 3 credits				C or better grade in TED 100			
<u>HPE 314</u>	<u>First Aid & Personal Safety *</u>	3	<u>Cal U</u>	Speech and hearing test			
Writing Component Courses - 2 courses				Document Act 34, Act 114 and Act 151 clearances			
TED 450 and TED 451 listed below in the Professional Preparation block are designated Upper-Division Writing Component Courses.				Pass Praxis exams in Reading, Writing, Math			
PROFESSIONAL PREPARATION (28 Credits)				Recommendation for Student Teaching - required 1 semester prior			
<u>EDU 340</u>	<u>Mainstreaming Exceptional Learners</u>	3	<u>Cal U</u>	Due Jun. 1 for Fall, Nov. 1 for Spring			
<u>TED 100</u>	<u>Introduction to Technology Education</u>	3	<u>Cal U</u>	3.00 GPA overall (at time of application & start of student teaching)			
<u>TED 300</u>	<u>Assessment & Instruction in TED</u>	3	<u>Cal U</u>	C or better grade in each TED course			
<u>TED 450</u>	<u>Teach Technology in Secondary Sch</u>	3	<u>Cal U</u>	TB test			
<u>TED 451</u>	<u>Teach Technology in Elementary Sch</u>	3	<u>Cal U</u>	Pass Praxis II TED exam and Fundamental Subjects exam			
<u>TED 461</u>	<u>Technology Education Student Teach</u>	10	<u>Cal U</u>	Current Act 34, 114 & 151 clearances, valid thru student teaching			
<u>TED 462</u>	<u>Professional Practices in TED</u>	3	<u>Cal U</u>	\$1 million liability insurance policy			
				EXTRA COURSES			
				<u>ELC 162</u>	<u>Free Electives</u>		22 ccac
				TED BS SP07			

College of Education and Human Services
Technology Education
Bachelor of Science in Education Degree (123 credits)
Eight Semester Course Sequence

FRESHMAN Semester 1				Semester 2			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
ENG	101	English Composition I	3	ENG	102	English Composition II	3
MAT	181	College Algebra	3	MAT	191	College Trigonometry	3
TED	105	Communicating Technical Designs	3	TED	111	Information Systems	3
TED	100	Intro to Technology Education	3	TED	226	Apps. & Process Engineer. Mats.	3
TED	126	Engineer. Materials & Prod. Design	3	TED	210	Design & Appropriate Technology	3
UNI	100	First Year Seminar	1				
			Total				Total
			16				15

SOPHOMORE Semester 3*				Semester 4**			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
ITE	250	Intro to Automation	3	EDU	310	Teaching In Multicultural Society	3
PSY	100	General Psychology	3	PSY	208	Educational Psychology	3
		General Education	9	TED	300	Assessment & Instruction in TED	3
						General Education	7
			Total				Total
			15				16

*Praxis exams should be taken during or immediately following the third semester.

**Students should apply for Admission to Teacher Education during the fourth semester.

JUNIOR Semester 5				Semester 6			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
EDU	340	Mainstreaming Exceptional Learn	3	HPE	314	First Aid & Personal Safety	3
TED	302	Energy & Control Systems	3	TED	304	Designs in Bio-Related Tech	3
TED	316	Structural Design	3	TED	346	Digital Communications	3
TED	335	Transportation Systems	3			General Education	3
		Technical/Technological Elective	3			Technical/Technological Elective	3
			Total				Total
			15				15

SENIOR Semester 7				Semester 8			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
TED	426	Manufacturing Enterprise	3	TED	461	Technology Education Stud Teach	10
TED	436	Engineering Design & Develop	3	TED	462	Prof Practices in Tech Ed	3
TED	450	Teach. Tech-Secondary Sch	3				
TED	500	Teach. Tech-Elementary Sch	3				
		Technical/Technological Elective	3				
			Total				Total
			15				13

Total = 120 Credit Hours (BS Degree)

**California University of Pennsylvania
College of Education and Human Services
Applied Engineering and Technology Department**

Microcomp Electronics to Technology Education - Bachelor of Science in Education (120 credits)

Name: _____ Entry: _____ ID: _____
 Email: _____ Phone: _____

GENERAL EDUCATION (50-51 Credits):		Crs	Grade	MAJOR (39 Credits)		Crs	Grade
Building a Sense of Community - 1 credit				Required Courses:			
<u>EGR 100</u>	<u>Engineering Seminar</u>	1	<u>CCAC</u>	ITE 250	Introduction to Automation	3	<u>Cal U</u>
				MAT 116	Math for Technologies 2	4	<u>CCAC</u>
				TED 105	Communicating Technical Designs	3	<u>Cal U</u>
Critical Thinking Skills - 3 credits				TED 111	Information Systems	3	<u>Cal U</u>
<u>TED 426</u>	<u>Manufacturing Enterprise*</u>	3	<u>Cal U</u>	TED 126	Engineering Materials & Product Design	3	<u>Cal U</u>
				TED 226	Apps. & Processing of Engineering Materials	3	<u>Cal U</u>
Communication Skills - 6 credits				TED 304	Designs in Bio-Related Technology	3	<u>Cal U</u>
<u>ENG 101</u>	<u>Composition I *</u>	3	<u>CCAC</u>	TED 335	Transportation Systems	3	<u>Cal U</u>
<u>ENG 106</u>	<u>Report Writing</u>	3	<u>CCAC</u>	TED 346	Digital Communications	3	<u>Cal U</u>
				TED 436	Engineering Design & Development	3	<u>Cal U</u>
Public Speaking - 3 credits				Technical/Technological Electives - 9 credits			
		3	<u>Cal U</u>		<u>Technical Elective</u>	3	<u>CCAC</u>
Mathematics - 3 credits					<u>Technical Elective</u>	3	<u>CCAC</u>
<u>MAT 114</u>	<u>Math for Technologies 1</u>	4	<u>CCAC</u>		<u>Technical Elective</u>	3	<u>Cal U</u>
						3	<u>Cal U</u>
Natural Sciences - 7-8 credits**				ELECTIVE (3 Credits)			
<u>PHY 113</u>	<u>Technical Physics 1</u>	3	<u>CCAC</u>	<u>SET 105</u>	<u>Technical Computing</u>	3	<u>CCAC</u>
<u>PHY 114</u>	<u>Technical Physics 2</u>	3	<u>CCAC</u>				
Social Sciences - 6 credits				Approved Technical/Technological Electives:			
<u>PSY 101</u>	<u>Intro to Psychology</u>	3	<u>CCAC</u>	COM 141, 142, 241, 242, THE 141, CSC 120 or above			
<u>PSY 206</u>	<u>Educational Psychology*</u>	3	<u>Cal U</u>	Any CET, EET, GCT, GET, ITE, MMT or TED course not already required by the major, or any other courses approved by the advisor			
Humanities - 3 credits				*Required courses that must be completed.			
	<u>Humanities - Literature</u>	3	<u>CCAC</u>				
Fine Arts - 3 credits				**Natural Science: Complete one 4-credit LAB and one LAB or SCIENCE.			
		3	<u>Cal U</u>	LAB (4 crs): BIO 115, BIO 206, CHE 101, PHY 121			
				SCIENCE (3 crs): EAS 163, ENS 101, PHS 120, PHS 137			
Multicultural Awareness - 3 credits				Admission to Teacher Education - must be approved at 48 - 65 credits			
<u>EDU 310</u>	<u>Teaching in a Multicultural Society *</u>	3	<u>Cal U</u>	2.80 GPA overall			
Values - 3 credits				C or better grades in 6 credits of math			
<u>TED 210</u>	<u>Design & Appropriate Technology *</u>	3	<u>Cal U</u>	C or better grades in 6 credits of composition/English literature			
				C or better grade in TED 100			
Technological Literacy - 6 credits				Speech and hearing test			
<u>TED 302</u>	<u>Energy & Control Systems *</u>	3	<u>Cal U</u>	Document Act 34, Act 114 and Act 151 clearances			
<u>TED 316</u>	<u>Structural Design *</u>	3	<u>Cal U</u>	Pass Praxis exams in Reading, Writing, Math			
Health & Wellness - 3 credits				Recommendation for Student Teaching - required 1 semester prior			
<u>HPE 314</u>	<u>First Aid & Personal Safety *</u>	3	<u>Cal U</u>	Due Jun. 1 for Fall, Nov. 1 for Spring			
Writing Component Courses - 2 courses				3.00 GPA overall (at time of application & start of student teaching)			
TED 450 and TED 451 listed below in the Professional Preparation block are designated Upper-Division Writing Component Courses.				C or better grade in each TED course			
				TB test			
				Pass Praxis II TED exam and Fundamental Subjects exam			
				Current Act 34, 114 & 151 clearances, valid thru student teaching			
				\$1 million liability insurance policy			
PROFESSIONAL PREPARATION (28 Credits)							
<u>EDU 340</u>	<u>Mainstreaming Exceptional Learners</u>	3	<u>Cal U</u>				
<u>TED 100</u>	<u>Introduction to Technology Education</u>	3	<u>Cal U</u>	EXTRA COURSES			
<u>TED 300</u>	<u>Assessment & Instruction in TED</u>	3	<u>Cal U</u>	<u>ELC 162</u>	<u>Free Electives</u>	29	<u>CCAC</u>
<u>TED 450</u>	<u>Teach Technology in Secondary Sch</u>	3	<u>Cal U</u>				
<u>TED 451</u>	<u>Teach Technology in Elementary Sch</u>	3	<u>Cal U</u>				
<u>TED 461</u>	<u>Technology Education Student Teach</u>	10	<u>Cal U</u>				
<u>TED 462</u>	<u>Professional Practices in TED</u>	3	<u>Cal U</u>				

TED BS SP07

College of Education and Human Services
Technology Education
Bachelor of Science in Education Degree (123 credits)
Eight Semester Course Sequence

FRESHMAN

Semester 1

Prefix	Number	Course	Cr.
ENG	101	English Composition I	3
MAT	181	College Algebra	3
TED	105	Communicating Technical Designs	3
TED	100	Intro to Technology Education	3
TED	126	Engineer. Materials & Prod. Design	3
UNI	100	First Year Seminar	1
Total			16

Semester 2

Prefix	Number	Course	Cr.
ENG	102	English Composition II	3
MAT	191	College Trigonometry	3
TED	111	Information Systems	3
TED	226	Apps. & Process Engineer. Mats.	3
TED	210	Design & Appropriate Technology	3
Total			15

SOPHOMORE

Semester 3*

Prefix	Number	Course	Cr.
ITE	250	Intro to Automation	3
PSY	100	General Psychology	3
		General Education	9
Total			15

Semester 4**

Prefix	Number	Course	Cr.
EDU	310	Teaching in Multicultural Society	3
PSY	208	Educational Psychology	3
TED	300	Assesment & Instruction in TED	3
		General Education	7
Total			16

*Praxis exams should be taken during or immediately following the third semester.

**Students should apply for Admission to Teacher Education during the fourth semester.

JUNIOR

Semester 5

Prefix	Number	Course	Cr.
EDU	340	Mainstreaming Exceptional Learn	3
TED	302	Energy & Control Systems	3
TED	316	Structural Design	3
TED	335	Transportation Systems	3
		Technical/Technological Elective	3
Total			15

Semester 6

Prefix	Number	Course	Cr.
HPE	314	First Aid & Personal Safety	3
TED	304	Designs in Bio-Related Tech	3
TED	346	Digital Communications	3
		General Education	3
		Technical/Technological Elective	3
Total			15

SENIOR

Semester 7

Prefix	Number	Course	Cr.
TED	426	Manufacturing Enterprise	3
TED	436	Engineering Design & Develop	3
TED	450	Teach. Tech-Secondary Sch	3
TED	500	Teach. Tech-Elementary Sch	3
		Technical/Technological Elective	3
Total			15

Semester 8

Prefix	Number	Course	Cr.
TED	461	Technology Education Stud Teach	10
TED	462	Prof Practices in Tech Ed	3
Total			13

Total = 120 Credit Hours (BS Degree)

California University of Pennsylvania
College of Education and Human Services
Applied Engineering and Technology Department
Robotics to Technology Education - Bachelor of Science in Education (120 credits)

Name: _____ Entry: _____ ID: _____
 Email: _____ Phone: _____

GENERAL EDUCATION (50-51 Credits):	Crs	Grade	MAJOR (39 Credits)	Crs	Grade
Building a Sense of Community - 1 credit			Required Courses:		
<u>EGR 100</u>	<u>1</u>	<u>CCAC</u>	<u>ITE 250</u>	<u>3</u>	<u>Cal U</u>
<u>Engineering Seminar</u>			<u>MAT 116</u>	<u>4</u>	<u>CCAC</u>
Critical Thinking Skills - 3 credits			<u>TED 105</u>	<u>3</u>	<u>_____</u>
<u>TED 426</u>	<u>3</u>	<u>Cal U</u>	<u>TED 111</u>	<u>3</u>	<u>_____</u>
<u>Manufacturing Enterprise*</u>			<u>TED 128</u>	<u>3</u>	<u>_____</u>
Communication Skills - 6 credits			<u>TED 226</u>	<u>3</u>	<u>_____</u>
<u>ENG 101</u>	<u>3</u>	<u>CCAC</u>	<u>TED 304</u>	<u>3</u>	<u>_____</u>
<u>Composition I *</u>			<u>TED 335</u>	<u>3</u>	<u>_____</u>
<u>ENG 106</u>	<u>3</u>	<u>CCAC</u>	<u>TED 346</u>	<u>3</u>	<u>_____</u>
<u>Report Writing</u>			<u>TED 436</u>	<u>3</u>	<u>_____</u>
Public Speaking - 3 credits					
<u>_____</u>					
<u>_____</u>					
<u>_____</u>					
Mathematics - 3 credits			Technical/Technological Electives - 9 credits		
<u>MAT 114</u>	<u>4</u>	<u>CCAC</u>	<u>EET 103</u>	<u>3</u>	<u>CCAC</u>
<u>Math for Technologies 1</u>			<u>RBT 225</u>	<u>4</u>	<u>CCAC</u>
Natural Sciences - 7-8 credits**			<u>MET 170</u>	<u>4</u>	<u>CCAC</u>
<u>PHY 113</u>	<u>3</u>	<u>CCAC</u>	ELECTIVE (3 Credits)		
<u>Technical Physics 1</u>			<u>SET 105</u>	<u>3</u>	<u>CCAC</u>
<u>PHY 114</u>	<u>3</u>	<u>CCAC</u>			
<u>Technical Physics 2</u>					
Social Sciences - 6 credits			Approved Technical/Technological Electives:		
<u>PSY 101</u>	<u>3</u>	<u>CCAC</u>	<u>COM 141, 142, 241, 242, THE 141, CSC 120 or above</u>		
<u>Intro to Psychology</u>			<u>Any CET, EET, GCT, GET, ITE, MMT or TED course not already required by</u>		
<u>PSY 208</u>	<u>3</u>	<u>Cal U</u>	<u>the major, or any other courses approved by the advisor</u>		
<u>Educational Psychology*</u>					
Humanities - 3 credits			*Required courses that must be completed.		
<u>_____</u>					
<u>_____</u>					
<u>_____</u>					
Fine Arts - 3 credits			**Natural Science: Complete one 4-credit LAB and one LAB or SCIENCE.		
<u>_____</u>			<u>LAB (4 crs): BIO 115, BIO 206, CHE 101, PHY 121</u>		
<u>_____</u>			<u>SCIENCE (3 crs) EAS 163, ENS 101, PHS 120, PHS 137</u>		
Multicultural Awareness - 3 credits					
<u>EDU 310</u>	<u>3</u>	<u>Cal U</u>	Admission to Teacher Education - must be approved at 48 - 65 credits		
<u>Teaching in a Multicultural Society *</u>			2.80 GPA overall		
Values - 3 credits			C or better grades in 6 credits of math		
<u>TED 210</u>	<u>3</u>	<u>Cal U</u>	C or better grades in 6 credits of composition/English literature		
<u>Design & Appropriate Technology *</u>			C or better grade in TED 100		
Technological Literacy - 6 credits			Speech and hearing test		
<u>TED 302</u>	<u>3</u>	<u>Cal U</u>	Document Act 34, Act 114 and Act 151 clearances		
<u>Energy & Control Systems *</u>			Pass Praxis exams in Reading, Writing, Math		
<u>TED 316</u>	<u>3</u>	<u>Cal U</u>			
<u>Structural Design *</u>					
Health & Wellness - 3 credits			Recommendation for Student Teaching - required 1 semester prior		
<u>HPE 314</u>	<u>3</u>	<u>Cal U</u>	Due Jun. 1 for Fall, Nov. 1 for Spring		
<u>First Aid & Personal Safety *</u>			3.00 GPA overall (at time of application & start of student teaching)		
Writing Component Courses - 2 courses			C or better grade in each TED course		
<u>TED 450 and TED 451 listed below in the Professional Preparation</u>			TB test		
<u>block are designated Upper-Division Writing Component Courses.</u>			Pass Praxis II TED exam and Fundamental Subjects exam		
			Current Act 34, 114 & 151 clearances, valid thru student teaching		
			\$1 million liability insurance policy		
PROFESSIONAL PREPARATION (28 Credits)					
<u>EDU 340</u>	<u>3</u>	<u>Cal U</u>			
<u>Mainstreaming Exceptional Learners</u>					
<u>TED 100</u>	<u>3</u>	<u>Cal U</u>	EXTRA COURSES		
<u>Introduction to Technology Education</u>			<u>ELC 162</u>	<u>Free Electives</u>	<u>26 CCAC</u>
<u>TED 300</u>	<u>3</u>	<u>Cal U</u>			
<u>Assessment & Instruction in TED</u>					
<u>TED 450</u>	<u>3</u>	<u>Cal U</u>			
<u>Teach Technology in Secondary Sch</u>					
<u>TED 451</u>	<u>3</u>	<u>Cal U</u>			
<u>Teach Technology in Elementary Sch</u>					
<u>TED 461</u>	<u>10</u>	<u>Cal U</u>	TED BS SP07		
<u>Technology Education Student Teach</u>					
<u>TED 462</u>	<u>3</u>	<u>Cal U</u>			
<u>Professional Practices in TED</u>					

College of Education and Human Services
Technology Education
Bachelor of Science in Education Degree (123 credits)
Eight Semester Course Sequence

FRESHMAN Semester 1				Semester 2			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
ENG	101	English Composition I	3	ENG	102	English Composition II	3
MAT	181	College Algebra	3	MAT	191	College Trigonometry	3
TED	105	Communicating Technical Designs	3	TED	111	Information Systems	3
TED	100	Intro to Technology Education	3	TED	226	Apps. & Process Engineer. Mats.	3
TED	126	Engineer. Materials & Prod. Design	3	TED	210	Design & Appropriate Technology	3
UNI	100	First Year Seminar	1				
			Total				Total
			16				15

SOPHOMORE Semester 3*				Semester 4**			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
ITE	250	Intro to Automation	3	EDU	310	Teaching in Multicultural Society	3
PSY	100	General Psychology	3	PSY	208	Educational Psychology	3
		General Education	9	TED	300	Assessment & Instruction in TED	3
						General Education	7
			Total				Total
			15				16

*Praxis exams should be taken during or immediately following the third semester.

**Students should apply for Admission to Teacher Education during the fourth semester.

JUNIOR Semester 5				Semester 6			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
EDU	340	Mainstreaming Exceptional Learn	3	HPE	314	First Aid & Personal Safety	3
TED	302	Energy & Control Systems	3	TED	304	Designs in Bio-Related Tech	3
TED	316	Structural Design	3	TED	346	Digital Communications	3
TED	335	Transportation Systems	3			General Education	3
		Technical/Technological Elective	3			Technical/Technological Elective	3
			Total				Total
			15				15

SENIOR Semester 7				Semester 8			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
TED	426	Manufacturing Enterprise	3	TED	461	Technology Education Stud Teach	10
TED	436	Engineering Design & Develop	3	TED	462	Prof Practices in Tech Ed	3
TED	450	Teach. Tech-Secondary Sch	3				
TED	500	Teach. Tech-Elementary Sch	3				
		Technical/Technological Elective	3				
			Total				Total
			15				13

Total = 120 Credit Hours (BS Degree)

**California University of Pennsylvania
College of Education and Human Services
Applied Engineering and Technology Department**

Sci & Tech to Technology Education - Bachelor of Science in Education (120 credits)

Name: _____ Entry: _____ ID: _____
 Email: _____ Phone: _____

GENERAL EDUCATION (50-51 Credits):

Building a Sense of Community - 1 credit

EGR 100 Engineering Seminar * 1 CCAC

Critical Thinking Skills - 3 credits

TED 426 Manufacturing Enterprise* 3 Cal U

Communication Skills - 6 credits

ENG 101 Composition I * 3 CCAC

ENG 102 Composition II OR ENG 106 Report Writ* 3 CCAC

Public Speaking - 3 credits

3 Cal U

Mathematics - 3 credits

MAT 114 Math for the Technologies 1 * 4 CCAC

Natural Sciences - 7-8 credits**

CHM 109 Intro to Chem 4 CCAC

PHY 113 Technical Physics 1 3 CCAC

Social Sciences - 6 credits

PSY 101 Intro to Psychology * 3 CCAC

PSY 208 Educational Psychology* 3 Cal U

Humanities - 3 credits

Any Humanities Elective 3 CCAC

Fine Arts - 3 credits

3 Cal U

Multicultural Awareness - 3 credits

EDU 310 Teaching in a Multicultural Society * 3 Cal U

Values - 3 credits

TED 210 Design & Appropriate Technology * 3 Cal U

Technological Literacy - 6 credits

TED 302 Energy & Control Systems * 3 Cal U

TED 316 Structural Design * 3 Cal U

Health & Wellness - 3 credits

HPE 314 First Aid & Personal Safety * 3 Cal U

Writing Component Courses - 2 courses

TED 450 and TED 451 listed below in the Professional Preparation block are designated Upper-Division Writing Component Courses.

MAJOR (39 Credits)

Required Courses:

ITE 250 Introduction to Automation 3 Cal U

MAT 116 Math for the Technologies 2 4 CCAC

EDD 101 Engineering Drawing I 3 CCAC

TED 111 Information Systems 3

TED 126 Engineering Materials & Product Design 3

MET 112 Engineering Materials 4 CCAC

TED 304 Designs in Bio-Related Technology 3

TED 335 Transportation Systems 3

TED 346 Digital Communications 3

TED 436 Engineering Design & Development 3

Technical/Technological Electives - 9 credits

EET 103 Intro to Electronics 3 CCAC

EDD 120 Intro to CAD 4 CCAC

SET 110 Project Fabrication 3 CCAC

ELECTIVE (3 Credits)

SET 105 Technical Computing 3 CCAC

Approved Technical/Technological Electives:

COM 141, 142, 241, 242, THE 141, CSC 120 or above
 Any CET, EET, GCT, GET, ITE, MMT or TED courses not already required by the major, or any other courses approved by the advisor

*Required courses that must be completed.

**Natural Science: Complete one 4-credit LAB & one LAB or SCIENCE.

LAB (4 crs): BIO 115, BIO 206, CHE 101, PHY 121

SCIENCE (3 crs) EAS 163, ENS 101, PHS 120, PHS 137

Admission to Teacher Education-must be approved at 48-65 credits
 2.80 GPA overall

C or better grades in 6 credits of math

C or better grades in 6 credits of composition/English literature

C or better grade in TED 100

Speech and hearing test

Document Act 34, Act 114 and Act 151 clearances

Pass Praxis exams in Reading, Writing, Math

Recommendation for Student Teaching - required 1 semester prior

Due Jun. 1 for Fall, Nov. 1 for Spring

3.00GPAoverall(at time of application & start of student teaching)

C or better grade in each TED course

TB test

Pass Praxis II TED exam and Fundamental Subjects exam

Current Act 34,114 & 151 clearances,valid thru student teaching

\$1 million liability insurance policy

PROFESSIONAL PREPARATION (28 Credits)

EDU 340 Mainstreaming Exceptional Learners 3 Cal U

TED 100 Introduction to Technology Education 3 Cal U

TED 300 Assessment & Instruction in TED 3 Cal U

TED 450 Teach Technology in Secondary Sch 3 Cal U

TED 451 Teach Technology in Elementary Sch 3 Cal U

TED 461 Technology Education Student Teach 10 Cal U

TED 462 Professional Practices in TED 3 Cal U

EXTRA COURSES

ELC 162 Free Electives

15 CCAC

TED BS SP07

College of Education and Human Services
Technology Education
Bachelor of Science in Education Degree (123 credits)
Eight Semester Course Sequence

FRESHMAN Semester 1				Semester 2			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
ENG	101	English Composition I	3	ENG	102	English Composition II	3
MAT	181	College Algebra	3	MAT	191	College Trigonometry	3
TED	105	Communicating Technical Designs	3	TED	111	Information Systems	3
TED	100	Intro to Technology Education	3	TED	226	Apps. & Process Engineer. Mats.	3
TED	126	Engineer. Materials & Prod. Design	3	TED	210	Design & Appropriate Technology	3
UNI	100	First Year Seminar	1				
Total			16	Total			15

SOPHOMORE Semester 3*				Semester 4**			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
ITE	250	Intro to Automation	3	EDU	310	Teaching In Multicultural Society	3
PSY	100	General Psychology	3	PSY	208	Educational Psychology	3
		General Education	9	TED	300	Assessment & Instruction in TED	3
						General Education	7
Total			15	Total			16

*Praxis exams should be taken during or immediately following the third semester.

**Students should apply for Admission to Teacher Education during the fourth semester.

JUNIOR Semester 5				Semester 6			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
EDU	340	Mainstreaming Exceptional Learn	3	HPE	314	First Aid & Personal Safety	3
TED	302	Energy & Control Systems	3	TED	304	Designs in Bio-Related Tech	3
TED	316	Structural Design	3	TED	346	Digital Communications	3
TED	335	Transportation Systems	3			General Education	3
		Technical/Technological Elective	3			Technical/Technological Elective	3
Total			15	Total			15

SENIOR Semester 7				Semester 8			
Prefix	Number	Course	Cr.	Prefix	Number	Course	Cr.
TED	426	Manufacturing Enterprise	3	TED	461	Technology Education Stud Teach	10
TED	436	Engineering Design & Develop	3	TED	462	Prof Practices in Tech Ed	3
TED	450	Teach. Tech-Secondary Sch	3				
TED	500	Teach. Tech-Elementary Sch	3				
		Technical/Technological Elective	3				
Total			15	Total			13

Total = 120 Credit Hours (BS Degree)