

California University of Pennsylvania

CUP *CIT*
Articulation and Transfer
Evaluation Office

Computer Engineering



March 30, 2007

Community College of Allegheny County
ATTN: Dr. Mary Frances Archey
1750 Clairton Rd
West Mifflin, PA 15122

RE: Articulation Agreement

Dear Dr. Archey:

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

Thank you.

Sincerely,

Belinda L. Smith

Belinda L. Smith, Director
Articulation & Transfer Evaluation

Enclosure

BLS/mas

250 University Avenue
California, PA 15419-1394
724-938-5939
724-938-4564 FAX
www.cup.edu

MAR 9 2007

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

THIS AGREEMENT, dated this 7th day of March, 2007, is made by and between, 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.

The primary purpose of this agreement is to enhance the transferability between CCAC's Associate of Science Degree in Computer and Information Science and CAL U's Bachelor of Science Degree in Computer Engineering Technology. 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 Degree in Computer Engineering Technology.

This agreement does not exclude students from transferring to majors other than Computer Engineering Technology. Exhibit A, consisting of two (2) pages, attached hereto and incorporated herein, outlines the courses that will be accepted from CCAC. Exhibit B, consisting of one (1) page, attached hereto and incorporated herein, outlines the courses necessary for the Bachelor of Science Degree in Computer Engineering Technology from CAL U.

I. 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 prior to the completion of an academic semester, 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 nondiscrimination 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.

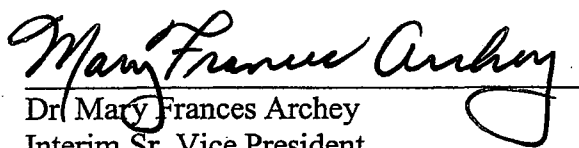
F. **Relationship of Parties.** The relationship between the parties to this Agreement to each other is that of independent contractors. The relationship of the parties to this contract to each other shall not be construed to constitute a partnership, joint venture or any other relationship, other than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


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. Mary Frances Archey
Interim Sr. Vice President
of Academic Affairs


Dr. Sean C. Madden, Interim Provost and
Vice President for Academic Affairs


Dr. Stewart Sutin, President
CCAC

Approved for form and legality:


University Legal Counsel

APPENDIX A
CCAC Computer & Information Science A.S. (050)
Cal U Computer Engineering Technology

For purposes of transferring from the Community College of Allegheny County (CCAC) to the Computer Engineering Technology B.S. program at California University of Pennsylvania (CalU), it is recommended that students enroll in the CCAC Computer & Information Science A.S. transfer program 050 and take the following course sequence:

First Semester

1. CIT111 *Introduction to Programming: Java*
(in place of CalU's CSC120 *Problem Solving & Program Construction*)
2. ENG101 *English Composition 1*
(in place of CalU's ENG101 *English Composition 1*)
3. EET103 *Introduction to Electronics*
4. MAT142 *Pre-Calculus Mathematics*¹
(in place of CalU's MAT199 *Pre-Calculus*)
5. MIT103 *Fundamentals of Microprocessors*
(in place of CalU's CET270 *Introduction to Microprocessor Design*)

Second Semester

1. CIT130 *Object-Oriented Programming: Java*
(in place of CalU's CSC265 *Object-Oriented Programming*)
2. MIT110 *Electrical Engineering Circuits 1*
(in place of CalU's EET110 *DC Circuit Analysis*)
3. ENG103 *Technical Communications* OR
ENG106 *Report Writing*
(in place of CalU's ENG217 *Science & Technical Writing*)
4. MAT135 *Discrete Mathematics*¹
(in place of CalU's MAT195 *Discrete Mathematical Structures*)
5. SPH101 *Oral Communications*
(satisfies CalU's Public Speaking General Education course requirement)

APPENDIX A

CCAC Computer & Information Science A.S. (050) Cal U Computer Engineering Technology

Third Semester

1. CIT145 *Programming in C*
(in place of CalU's CSC124 *Computer Programming I*)
2. MIT210 *Electrical Engineering Circuits 2*
(in place of CalU's EET160 *AC Circuit Analysis*)
3. ECO102 *Principles of Macroeconomics* or
ECO103 *Principles of Microeconomics*
(in place of CalU's ECO100 *Elements of Economics* as one of the two General Education Social Science courses)
4. MAT201 *Calculus 1* ¹
(in place of CalU's MAT281 *Calculus I*)
5. PHY221 *Physics for Engineering and Science 1* ²
(in place of CalU's PHY101 *College Physics I*)

Fourth Semester

1. CIT245 *Data Structures and Programming: C++*
(in place of CalU's CSC328 *Data Structures*)
2. MIT208 *Digital Electronics*
(in place of CalU's CET235 *Digital Electronic Design*)
3. MAT202 *Calculus 2* ¹
(in place of CalU's MAT282 *Calculus II*)
4. PHY222 *Physics for Engineering and Science 2* ²
(in place of CalU's PHY202 *College Physics II*)
5. Social Science Elective
(satisfies CalU's social science general education requirement)

¹ CalU requires the following CCAC mathematics classes to be taken in the first two years:

- MAT142 *Pre-Calculus Mathematics* OR
MAT111 *College Algebra* AND MAT147 *College Trigonometry*
- MAT135 *Discrete Mathematics*
- MAT201 *Calculus 1*
- MAT202 *Calculus 2*

A student needs to discuss with a counselor the appropriate sequence of mathematics courses and any remedial courses, based on their high school mathematics capabilities and/or placement test scores.

² CalU allows the algebra-based PHY141 *Physics 1* and PHY142 *Physics 2* courses to be taken in place of PHY221 *Physics for Engineering and Science 1* and PHY222 *Physics for Engineering and Science 2*.

APPENDIX B

Program-to-Program Transfer Articulation

CCAC CIS Associates to Cal U CET Bachelors

Name _____ Student ID Number _____

GENERAL EDUCATION**** (55 Credits):

	Crs	Grade
<u>Building a Sense of Community</u> - 1 credit		
EET 103 Introduction to Electronics	1	CCAC
<u>Critical Thinking Skills</u> - 3 credits		
CIT 111 Introduction to Programming: Java	3	CCAC
<u>Communication Skills</u> - 6 credits		
ENG 101 English Composition I	3	CCAC
ENG 103/106 Tech.Comm./Rprt Wtng	3	CCAC
<u>Public Speaking</u> - 3 credits		
SPH 101 Oral Communication	3	CCAC
<u>Mathematics</u> - 3 credits		
MAT 142 Pre-Calculus* ***	3	CCAC
<u>Natural Sciences</u> - 8 credits		
PHY 221/141 College Physics I*	4	CCAC
PHY 222/142 College Physics II*	4	CCAC
<u>Social Sciences</u> - 6 credits		
EC 102/103 Economics*	3	CCAC
Social Science Elective	3	CCAC
<u>Humanities</u> - 3 credits		
	3	
<u>Fine Arts</u> - 3 credits		
	3	
<u>Multicultural Awareness</u> - 3 credits		
	3	
<u>Values</u> - 3 credits		
	3	
<u>Technological Literacy</u> - 6 credits		
CIT 145 Programming in C	3	CCAC
CSC 306 Fortran*	3	

Health & Wellness - 3 credits

_____ 3 _____

Writing Component Courses (two courses required)

CE 60	Microprocessor Engineering	x	_____
CE 492	Senior Project II*	x	_____

MAJOR (72 Credits)

Required Courses:

	Crs	Grade
MIT 208 Digital Electronics	4	CCAC
MIT 103 Fundamental of Microprocessors	4	CCAC
CET 335 Microprocessor Interfacing	4	_____
CET 350 Technical Computing using Java	3	_____
CET 360 Microprocessor Engineering	4	_____
CET 440 Computer Networking	4	_____
CET 490 Senior Project I	3	_____
CET 492 Senior Project II	3	_____
CIT 130 Object-Oriented Programming:Java	3	CCAC
CIT 245 Data Structures and Prog Design:C++	3	CCAC
CSC 378 Computer Architecture	3	_____
CSC 400 Operating Systems	3	_____
MIT 110 Elect. Engr. Circuits I	4	CCAC
MIT 210 Elect. Engr. Circuits II	4	CCAC
EET 215 Introduction to Instrumentation	3	_____
MAT 135 Discrete Mathematics	3	CCAC
MAT 201 Calculus I	3	CCAC
MAT 202 Calculus II	3	CCAC
MAT 341 Linear Algebra	3	_____

Approved Technical Electives - 9 credits

_____	_____
_____	_____
_____	_____

Approved Technical Electives

CET 495	CET Internship
CSC 302	Visual Programming
CSC 323	Assembly Language Programming
CSC 420	Artificial Intelligence
CSC 455	Structures of Programming Languages
CSC 460	Language Translation
CSC 475	Theory of Languages
EET 370	Instrumentation Design I
EET460	Digital Signal Processing
MAT 381	Calculus III
MAT 382	Calculus IV

NOTE:

* Required Courses: If these courses are not completed as part of the student's general education, he or she should complete them within the elective category.

***College Algebra (3 cr.) and College Triginometry (3 cr.) may be substituted for Pre-Calculus, if math placement test score does not permit direct entry into Pre-Calculus, or if students would prefer less intense coverage of this material.

****Students must complete six credits of General Education courses at the 300/400/500 level.

CCAC 64 credits

Cal U 60 credits

Total 124 credits

Note: Student MUST complete the CCAC CIS degree