

Does the revision involve changing or adding Related Instruction?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
If yes, a template for Related Instruction will need to be filled out. The template can be found at: http://www.pcc.edu/resources/academic/eac/degree/forms.html	
Additional Comments Or Changes	

SECTION #3 COURSE BY COURSE COMPARISON

List all courses (current AND proposed) in the order that they are distributed in the [catalog](#). If listed term by term then identify them in a term by term sequence on this form. If they identified within categories such as CORE, ELECTIVES, etc, then identify them as such.

If you are adding a course place it in the preferred term or category on this form. If you want to rearrange the order of courses within the term by term sequence do so on this form.

The information you provide on this form will be reflected in the PCC catalog pages. Please ensure it is correct.

Current Certificate Information			Proposed Certificate Information		
Course Number	Course Title	Credits	Course Number	Course Title	Credits
CH100	Fundamentals of Chemistry	4	No change		
MT104	Introduction to Solar Voltaic Process	1			
MT101	Introduction to Semiconductor Manufacturing	1			
MT102	Introduction to Semiconductor Devices	1			
MT 109	Intro to Electronics and Instrumentation	3			
MT 121	Digital Systems I	3			
MT 180	High Tech Employment Strategies	1			
Credit total		14	Credit total		14

SECTION #4 (Please contact the Curriculum Office for support in filling out this section)			
Is this a Related Certificate?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is this a Career Pathway?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
If yes, what is the base degree?	AAS in Solar Voltaic Manufacturing Technology	Will the proposed change affect the Career Pathway or Related Certificate? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
If yes, how?	Will change certificate outcome		
Is this a statewide certificate? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, has the change been approved by the consortium? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Requested Implementation Term (Please refer to Degree/Certificate timeline implementation guidelines)		Spring 2012	

Submitted by:	Shelton Fu
Email:	sfu@pcc.edu
Phone:	614-7620



**ASSOCIATE OF APPLIED
SCIENCE DEGREE
REVISION REQUEST FORM**

Directions: Fill out completely and
return electronically to:
dac@pcc.edu
Signature pages should be intercampus mailed
to:
Curriculum Office DC / 4th floor

SECTION # 1 OVERVIEW

Current Title:	MICROELECTRONICS TECHNOLOGY AAS DEGREE	Proposed Title:	No Change
Current Credits:	103	Proposed Credits:	106
Overview and rationale for proposed changes:	Addition of a new course—MT131 Introduction to Programmable Logic Controllers to address requirement of PLC skills by some of our industry partners on entry level technicians. Update of the wording of the outcome of the degree for clarification.		
List of specific changes being proposed (i.e. may include, addition or deletion of courses, title changes, credit changes, prerequisite changes, outcome changes, course changes, etc).	<ol style="list-style-type: none"> 1. Add MT131, 3cr: Introduction to Programmable Logic Controllers 2. Revise the degree outcomes for clarification. 3. Increase number of credits for the degree 		

SECTION # 2 PREREQUISITES AND OUTCOMES

All degree/certificate outcomes will be reviewed by the committee regardless of whether or not outcomes have changed.

Current Prerequisites	Does the revision involve changing degree prerequisites?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Course Number	Course Title or Placement level		
MTH 95	Placement into Math 95 Intermediate Algebra		
WR 121	Placement into WR121 English Composition		

Proposed Prerequisites		
Course Number	Course Title or Placement level	
NA		
Current Outcomes: Required whether or not outcomes are being changed.	Describe what we intend students to be able to do “out there” (in life roles: worker, family member, community citizen, global citizen, and life-long learner), as opposed to a classroom activity “in here”? Good outcomes statements will suggest context to indicate this “out there” and they will describe what students can DO with what they know. The committee will review the outcomes. For guidance on writing good outcome statements.	Does the revision involve changing degree outcomes? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Identify which college AAS degree outcome aligns to individual core outcomes. It is possible that all core outcomes may not be address by the AAS degree outcomes.		
Degree Outcome		Core Outcome
<i>Students who complete this degree should be able to:</i>		
• Operate, maintain and troubleshoot manufacturing and testing equipment		CO 3 Critical Thinking & Problem Solving CO 5 Professional Competency
• Troubleshoot circuits and systems		CO 3 Critical Thinking & Problem Solving CO 5 Professional Competency
• Monitor and maintain semiconductor manufacturing processes.		CO 5 Professional Competency
• Work effectively in teams.		CO 1 Communication CO 5 Professional Competency
• Communicate effectively with colleagues and vendors		CO 1 Communication CO 5 Professional Competency
Revised Outcomes: Identify which college AAS degree outcome aligns to individual core outcomes. It is possible that all core outcomes may not be address by the AAS degree outcomes.		
Degree Outcome		Core Outcome
<i>Students who complete this degree should be able to:</i>		

Use systematic methodologies and apply understanding of process equipment to trouble-shoot common process equipment problems.	CO 3 Critical Thinking & Problem Solving CO 5 Professional Competency
Apply a good foundation in maintenance to perform basic industry standard maintenance procedures.	CO 5 Professional Competency
Trouble-shoot basic analog and digital circuits.	CO 3 Critical Thinking & Problem Solving CO 5 Professional Competency
Monitor and maintain manufacturing processes.	CO 5 Professional Competency
Work effectively in teams.	CO 1 Communication CO 5 Professional Competency
Communicate effectively with colleagues and vendors.	CO 1 Communication CO 5 Professional Competency

SECTION # 3 COURSE BY COURSE COMPARISON

CURRENT DEGREE INFORMATION			PROPOSED DEGREE INFORMATION		
COURSE NUMBER	COURSE TITLE	CREDITS	COURSE NUMBER	COURSE TITLE	CREDITS
MT 101	Introduction to Semiconductor Mfg	1	MT 101	Introduction to Semiconductor Mfg	1
MT 102	Introduction to Semiconductor Devices	1	MT 102	Introduction to Semiconductor Devices	1
MT 103	Introduction to Micro and Nano Proc	1	MT 103	Introduction to Micro and Nano Proc	1
MT 111	Electronic Circuits and Devices I	4	MT 111	Electronic Circuits and Devices I	4
MTH 95	Intermediate Algebra	4	MTH 95	Intermediate Algebra	4
WR 121	English Composition	4	WR 121	English Composition	4
Term 2			Term 2		
CH 221	General Chemistry*	5	CH 221	General Chemistry*	5
MT 112	Electronic Circuits and Devices II	4	MT 112	Electronic Circuits and Devices II	4
MT 121	Digital Systems I	3	MT 121	Digital Systems I	3
MTH 111C	Algebra for Math, Science and Engineering	5	MTH 111C	Algebra for Math, Science and Engineering	5
Term 3			Term 3		
CH 222	General Chemistry*	5	CH 222	General Chemistry*	5
MT 113	Electronic Circuits & Devices III	4	MT 113	Electronic Circuits & Devices III	4
MT 122	Digital Systems II	3	MT 122	Digital Systems II	3
MTH 243	Statistics I*	4	MTH 243	Statistics I*	4

WR 227	Technical and Professional Writing I	4	WR 227	Technical and Professional Writing I	4
			MT 131	Intro to Programmable Logic Controllers (ADD)	3
Term 4			Term 4		
MT 223	Vacuum Technology	3	MT 223	Vacuum Technology	3
MT 224	Process Equipment I	3	MT 224	Process Equipment I	3
PHY 201	General Physics*	4	PHY 201	General Physics*	4
SP 130	Business and Professional Speech Communication	4	SP 130	Business and Professional Speech Communication	4
	General Education	4		General Education	4
Term 5			Term 5		
MT 227	Process Equipment II	3	MT 227	Process Equipment II	3
MT 240	RF Plasma Systems	3	MT 240	RF Plasma Systems	3
PHY 202	General Physics*	4	PHY 202	General Physics*	4
SP 215	Small Group Communication*	4	SP 215	Small Group Communication*	4
MT180	High Tech Employment Strategies (ADD)	1	MT180	High Tech Employment Strategies (ADD)	1
Term 6			Term 6		
MT 200	Semiconductor Processing	3	MT 200	Semiconductor Processing	3
MT 222	Quality Control Methods in Manufacturing	3	MT 222	Quality Control Methods in Manufacturing	3
MT 228	Process Equipment III	4	MT 228	Process Equipment III	4
PHY 203	General Physics*	4	PHY 203	General Physics*	4
	General Education	4		General Education	4
	Credit Total	103		Credit Total	106

SECTION # 4 (Please contact the Curriculum Office for support in filling out this section if needed.)

Is this a statewide degree?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Has the change been approved by the consortium?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Is this a degree option?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, name of the base degree:	

		CONSENT AGENDA FORM This form maybe used instead of coming to the Degree and Certificate Meeting. Directions: Fill out completely and return electronically to: dac@pcc.edu		Consent Agenda form may be used for the following: <ol style="list-style-type: none"> 1. Course title changes 2. Course number changes 3. Addition/Deletion of an elective 4. Change in the number of pass/no pass credits other than the default 5. Degree or certificate title changes 6. Change to open admissions Other changes need to come before the Degree and Certificate Committee.	
		Submitted by:	Eric Kirchner	Email: ekirchne@pcc.edu	Phone: x7621
Title of Degree/Certificate:	Microelectronics Technology AAS	Requested Implementation Term:	As soon as possible		
What type of change are you requesting?	<input type="checkbox"/> Course title change <input type="checkbox"/> Addition of an elective <input type="checkbox"/> Degree or certificate title change		<input type="checkbox"/> Course number change <input type="checkbox"/> Deletion of an elective <input checked="" type="checkbox"/> Other		
Fill in the sections below as applicable. If a section is not applicable, fill in N/A.					
Current Course Title:		Proposed Course Title:			
Current Course Number:		Proposed Course Number:			
Electives List Title:					
Explanation of Other:	We would like the program to be open so that students can select the MT major upon enrolling at PCC. The program was originally a closed program for Intel but that has not been true for 15 years. This change would just save some busywork for us.				