

**MANUFACTURING TECHNOLOGY  
SEMICONDUCTOR EMPHASIS  
ASSOCIATE OF APPLIED SCIENCE  
Catalog 2005-2007**

This program will prepare students for a rewarding career as a semiconductor manufacturing technology (SMT) technician. The SMT tech is responsible for the process equipment that produces semiconductors ranging from the simple transistors to the multi-million component computer microprocessor. This includes operation, routine maintenance, calibration, and emergency repair when the equipment fails. SMT technicians are a critical component of this fast growing and financially rewarding industry. **Note:** A student must earn a grade of "C" or higher in all courses in order to receive a degree.

			<b>Credit Hours</b>	<b>Grade</b>	
<b>1st Semester</b>					
___	COSC	125	Business Microcomputer Applications	3	_____
___	MATH	115	Intermediate Algebra and Applications <b>OR</b>	4	_____
___	MATH	116	Math for High Tech Careers	3	_____
___	INST	140	Applied Basic DC Circuits	3	_____
___	ENGL	118	Technical Composition	3	_____
___	CHEM	110	Introductory Chemistry	4	_____
			Total 16 or 17 credits		
<b>2<sup>nd</sup> Semester</b>					
___	INST	145	Applied Basic AC Circuits	3	_____
___	INST	160	Digital Electronics	5	_____
___	PHYS	111	Introduction to Physics	4	_____
___	ENGL	218	Advanced Technical Composition	3	_____
___	_____	_____	Humanities/Social Science Elective	3	_____
			Total 18 credits		
<b>*Summer Semester</b>					
___	SPCH	111	Interpersonal Communications	3	_____
___	SEMT	230	Electromechanical Devices	5	_____
			Total 8 credits		
<b>4th Semester</b>					
___	INST	180	Semiconductor Circuits I	5	_____
___	INST	271	PLC Applications	5	_____
___	SEMT	210	Semiconductor Manufacturing Technology I	3	_____
___	SEMT	211	Semiconductor Manufacturing Technology I Lab	1	_____
___	SEMT	270	Vacuum and Power RF Lab	4	_____
			Total 18 credits		
<b>5<sup>th</sup> Semester</b>					
___	SEMT	240	Electromechanical Systems	5	_____
___	SEMT	250	Statistical Process Control	3	_____
___	SEMT	260	Semiconductor Manufacturing Technology II	3	_____
___	SEMT	261	Semiconductor Manufacturing Technology II Lab	1	_____
___	INST	272	Semiconductor Circuits II	5	_____
			Total 17 credits		

**Total credit hours required for this degree is 77 or 78**