

## AAS Degree in Automated Manufacturing Technology

### **Microelectronics Technology AAS Degree: Option in Automated Manufacturing Technology**

**Degree Outcomes:**

- Operate, maintain and troubleshoot automated equipment used in the high volume manufacturing environment.
- Maintain automated systems used in work flows and for material and supply handling.
- Work effectively in teams.
- Communicate effectively with colleagues and vendors.

Entrance Prerequisites: Placement into MTH 111 and WR 121

First Term (Fall)

MT 101	Intro to Semiconductor Manufacturing	1
MT 102	Intro to Semiconductor Devices	1
MT 104	Intro to Solar Voltaic Processes	1
MT 111	Electronic Circuits & Devices I	4
MTH 111C	College Algebra	5
WR 121	English Composition I	4

Second Term (Winter)

MT 112	Electronic Circuits & Devices II	4
MT 121	Digital Systems I	3
CS 161	Computer Science 1	4
(Soc. Sci)	General Education	4

Third Term (Spring)

MT 113	Electronic Circuits and Devices III	4
MT 122	Digital Systems II	3
CS 162	Computer Science II	4
SP 130	Business & Professional Speech	4

(Summer Term recommended)

MTH 243	Statistics I	4
WR 227	Technical Writing I	4

Fifth Term (Fall)		
MT 224	Process Equipment I	3
CIS 179	Data Communication Concepts	4
EET 241	Microcomputer Systems I	4
SP 215	Small Group Communication	4
Sixth Term (Winter)		
MT 227	Process Equipment II	3
EET 242	Microcomputer Systems II	4
ELT 125	Basic PLC	2
PHY 201	General Physics	4
Seventh Term (Spring)		
MT 222	Quality Control in SMT	3
MT 228	Process Equipment III	4
ELT 126	Intermediate PLC	2
(any)	General Education	4
Total Number of Credits		95
Credits in MT		34
Credits in MTH		9
Credits in science (Physics and Chemistry)		4
Credits in Writing and Communication		16
Credits in General Education		8