

AAS Degree in Microelectronics Technology

Microelectronics Technology AAS Degree:		
<u>Degree Outcomes:</u>		
<ul style="list-style-type: none"> • Operate, maintain and trouble-shoot manufacturing and testing equipment. • Troubleshoot circuits and systems • Monitor and maintain semiconductor manufacturing processes. • Work effectively in teams. • Communicate effectively with colleagues and vendors. 		
Entrance Prerequisites: Placement into MTH 95 and WR 121		
First Term		
MT 101	Intro to Semiconductor Manufacturing	1
MT 102	Intro to Semiconductor Devices	1
MT 103	Intro to Micro and Nano Processes	1
MT 111	Electronic Circuits & Devices I	4
MTH 95	Intermediate Algebra	4
WR 121	English Composition I	4
Second Term		
CH 221	General Chemistry I	5
MT 112	Electronic Circuits & Devices II	4
MT 121	Digital Systems I	3
MTH 111C	College Algebra	5
Third Term		
CH 222	General Chemistry II	5
MT 113	Electronic Circuits and Devices III	4
MT 122	Digital Systems II	3
MTH 243	Statistics I	4
WR 227	Technical Writing I	4
Fourth Term		
MT 223	Vacuum Technology	3
MT 224	Process Equipment I	3
PHY 201	General Physics	4
SP 130	Business & Professional Speech	4
(Soc. Sci)	General Education	4

Fifth Term		
MT 227	Process Equipment II	3
MT 240	RF Plasma Systems	3
PHY 202	General Physics	4
(any)	General Education	4
Sixth Term		
MT 200	Semiconductor Processing	3
MT 222	Quality Control in SMT	3
MT 228	Process Equipment III	4
PHY 203	General Physics	4
SP 215	Small Group Communication	4
Total Number of Credits		102
Credits in MT		43
Credits in MTH		13
Credits in science (Physics and Chemistry)		22
Credits in Writing and Communication		16
Credits in General Education		8