

AAS Degree in Solar Voltaic Manufacturing Technology

Microelectronics Technology AAS Degree: Option in Solar Voltaic Manufacturing Technology

Degree Outcomes:

- Monitor and evaluate solar cells manufacturing process.
- Operate, perform maintenance and trouble-shooting on selected solar cells process equipment.
- Be able to troubleshoot electrical, mechanical and automated systems.
- Work effectively in teams.
- Communicate effectively with colleagues and vendors.

Entrance Prerequisites: Placement into MTH 95 and WR 121

First Term

MT 90	Basic Electronics	3
MT 101	Intro to Semiconductor Manufacturing	1
MT 102	Intro to Semiconductor Devices	1
MT 104	Intro to Solar Voltaic Processes	1
MTH 95	Intermediate Algebra	4
WR 121	English Composition I	4

Second Term

CH 100	General Chemistry I	4
MT 111	Electronic Circuits & Devices I	4
MT 121	Digital Systems I	3
MTH 111C	College Algebra	5

Third Term

MT 112	Electronic Circuits & Devices II	4
MT 122	Digital Systems II	3
MTH 243	Statistics I	4
SP 130	Business & Professional Speech	4

(Summer Term recommended)

MT 113	Electronic Circuits and Devices III	4
WR 227	Technical Writing I	4

Fifth Term		
MT 223	Vacuum Technology	3
MT 224	Process Equipment I	3
PHY 201	General Physics	4
SP 215	Small Group Communication	4
Sixth Term		
MT 227	Process Equipment II	3
MT 240	RF Plasma Systems	3
PHY 202	General Physics	4
(Soc. Sci)	General Education	4
Seventh Term		
MT 200	Semiconductor Processing	3
MT 222	Quality Control in SMT	3
MT 228	Process Equipment III	4
PHY 203	General Physics	4
(any)	General Education	4
Total Number of Credits		99
Credits in MT		46
Credits in MTH		13
Credits in science (Physics and Chemistry)		16
Credits in Writing and Communication		16
Credits in General Education		8