SEMICONDUCTOR MANUFACTURING TECHNOLOGY - ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

Explore More About This Program: https://cwi.edu/program/semiconductor-manufacturing-technology

Degree Quick Facts

· Instructional School: Industry, Engineering, and Trades

Department: EngineeringProgram Code: SMT.AAS

• Program Type: Career and Technical Education

· Available Fully Online: No

· Eligible for Federal Financial Aid: Yes

NOTE: Courses required for this program *may* have an additional fee; more information can be found on the <u>Special Course Fees</u> web page.

N/Iio

Degree Requirements

Course	Course Title	Min Credits
General Education Re	equirements	
ENGL 101	Writing and Rhetoric I (GEM 1)	3
COMM 101	Fundamentals of Oral Communication (GEM 2)	3
MATH 143	Precalculus I: Algebra (GEM 3) ¹	3
GEM 6 - Social & Behavioral Ways of Knowing course		3
PHYS 111	General Physics I (GE Elective)	3
PHYS 111L	General Physics I Lab (GE Elective)	1
Major Requirements		
AMET 121	DC Circuits and Application	5
AMET 131	AC Circuits and Application	5
AMET 136	Industrial Tools and Fabrication	3
AMET 141	Analog Circuits and Application	5
AMET 151	Digital Circuits and Application	4
Select one of the following options:		4
Option 1:		
CHEM 101	Introduction to Chemistry ²	
CHEM 101L	Introduction to Chemistry Lab ²	
Option 2:		
CHEM 111	General Chemistry I ²	
CHEM 111L	General Chemistry I Lab ²	
MATH 144	Precalculus II: Trigonometry ¹	2
SMT 200	Programming for Semiconductor Manufacturing	2
SMT 210	Nanofabrication I	2
SMT 220	Quality Control and Statistical Processing	3

¹ Students who have prior experience with chemistry are strongly

encouraged to take the Chemistry Placement exam at the CWI
Assessment Center. Passing the Chemistry Placement exam will allow
students to register directly into CHEM 111 General Chemistry I, which is
the recommended Chemistry option for SMT majors.

If students would prefer to complete their GEM 3 math requirement in a single semester, they may take MATH 147 Precalculus (5 credits) instead of MATH 143 Precalculus I: Algebra (3 credits) and MATH 144 Precalculus II: Trigonometry (2 credits).