



APPLIED TECHNOLOGIES

Central New Mexico Community College Graduation Evaluation Checklist 2006 - 2007 Catalog

MANUFACTURING TECHNOLOGY

MEMS/SMT Technician Concentration

CERTIFICATE AND DEGREE REQUIREMENTS

___ ELEC 103A	(4 credit hours)	Electronics Fundamentals A (ELEC 103L 8 credits)
___ ELEC 103B	(4 credit hours)	Electronics Fundamentals B (ELEC 103L 8 credits)
___ ELEC 104	(4 credit hours)	Electronics Mathematics
___ ELEC 105A	(3 credit hours)	Digital Circuits I (ELEC 105L)
___ ELEC 105B	(3 credit hours)	Digital Circuits II
___ ENG 101 or ___ ENG 102	(3 credit hours) (3 credit hours)	College Writing Analytic and Argumentative Writing
___ MEMS 101	(3 credit hours)	Introduction to Microelectro-mechanical Systems (MEMS)
___ MEMS 220	(5 credit hours)	MEMS Manufacturing Process
___ MT 105	(4 credit hours)	Manufacturing Concepts
___ SMT 204/204L	(5 credit hours)	Semiconductor Manufacturing Technology Theory and Lab

TOTAL FOR CERTIFICATE 38

ADDITIONAL ASSOCIATE DEGREE REQUIREMENTS

___ CHEM 121/121L or (4 credit hours)	General Chemistry 1
___ PHYS 151/151L or higher (4-5 credit hours)	CHEM/PHYS
___ MATH 121 or higher (3-4 credit hours)	College Algebra (Except MATH 129, MATH 130, MATH 215, MATH 296)
___ ENG 119 or	Technical Communications
___ ENG 219 or	Technical Writing
___ COMM	Communications elective
___ ELEC 118L	Electromechanical Devices (118A & 118B)
___ MEMS 225	MEMS Manufacturing Technology Theory
___ MEMS 226L	MEMS Manufacturing Technology Lab
___ MT 281	Statistical Control
___ PC 201	Electromechanical Systems Trouble Shooting
___ HUM/SOC	Humanities or Social/Behavioral Science Elective

3 CREDITS OF TECHNICAL ELECTIVES (SEE LIST BELOW)

____ CP 278A	(3 credit hours)	C++ Programming I
____ ELEC 114L	(6 credit hours)	Semiconductor Devices (ELEC 114A & ELEC 114B)
____ ELEC 205L	(4 credit hours)	Analog Circuits
____ ELEC 217	(3 credit hours)	Upgrading and Repairing PCs
____ ELEC 275L	(3 credit hours)	Soldering Techniques (or ELEC 276L & ELEC 277L)
____ ELEC 296	(2-8 credit hours)	Topics
____ ELEC 297	(2-8 credit hours)	Special Problems
____ ELEC 298	(3 credit hours)	Internship
____ ELEC 299	(3 credit hours)	Cooperative Education
____ MATT 101	(2 credit hours)	Metals Math 1
____ MATT 113	(2 credit hours)	Metals Blueprint Reading 11
____ MATT 202	(2 credit hours)	Metallurgy
____ MT 205	(6 credit hours)	Applied Science
____ PC 206	(3 credit hours)	CIM Theory and Applications
____ PC 208	(3 credit hours)	Mobile Robot Design and Construction
____ PHOT 101L	(4 credit hours)	Introduction to Photonics and Photonics Safety (ELEC 111L)
____ CSE 101 or higher	(1 credit hour)	Career Exploration

TOTAL FOR ASSOCIATE DEGREE..... 72-74

***CHECK CATALOG FOR SPECIFIC PREREQUISITES,
CREDITS AND CREDIT HOUR REQUIREMENTS***

STUDENT'S FULL LEGAL NAME (PRINT)

STUDENT I.D. NUMBER

DEPARTMENT APPROVAL SIGNATURE

DATE 8/25/06 SL08/29/06

ACADEMIC ADVISOR/COUNSELOR SIGNATURE

DATE