



APPLIED TECHNOLOGIES

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

MANUFACTURING TECHNOLOGY

ADVANCED MANUFACTURING CONCENTRATION

CERTIFICATE AND DEGREE REQUIREMENTS

___ ELEC 103A	(4 credit hours)	Electronics Fundamentals A (ELEC 103L 8 credit hrs)
___ ELEC 103B	(4 credit hours)	Electronics Fundamentals B (ELEC 103L 8 credit hrs)
___ 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	(3 credit hours)	College Writing
___ ENG 102	(3 credit hours)	Analytic and Argumentative Writing
___ MATT 102	(2 credit hours)	Metals Blueprint Reading I
___ MATT 103L	(2 credit hours)	Basic Lathe Principles
___ MATT 104L	(2 credit hours)	Basic Milling Machine Principles
___ MATT 105L	(2 credit hours)	Basic Supporting Machine Tool Principles
___ MEMS 101	(3 credit hours)	Introduction to MEMS (Formerly PC 210)
___ MT 105	(4 credit hours)	Manufacturing Concepts
___ MT 281	(3 credit hours)	Statistical Controls

TOTAL FOR CERTIFICATE..... 39

ADDITIONAL ASSOCIATE DEGREE REQUIREMENTS

___ CHEM 121/121L or	(4 credit hours)	General Chemistry I/Lab
___ 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, and MATH 296)
___ ENG 119 or	(3 credit hours)	Technical Communications
___ ENG 219 or	(3 credit hours)	Technical Writing
___ COMM	(3 credit hours)	Communications elective
___ ELEC 118L	(6 credit hours)	Electromechanical Devices (ELEC 118A & 118B)
___ MATT 108L	(2 credit hours)	Basic Measurement and Inspection

___ MATT 214	(2 credit hours)	Machine Tool Technology CAD
___ MT 290	(3 credit hours)	Materials Science I
___ MT 291	(3 credit hours)	Materials Science II
___ SMT 204/204L	(5 credit hours)	Semiconductor Manufacturing Technology/Lab (SMT 201/201L) & (SMT 211/211L)
___ HUM/SOC	(3 credit hours)	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 & 114B)
___ ELEC 205L	(4 credit hours)	Analog Circuits
___ 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 I
___ MATT 113	(2 credit hours)	Metals Blueprint Reading II
___ MATT 202	(2 credit hours)	Metallurgy
___ MT 205	(6 credit hours)	Applied Science
___ PC 201	(4 credit hours)	Electromechanical Systems Trouble Shooting
___ PHOT 101L	(4 credit hours)	Introduction to Photonics and Photonics Safety (ELEC 111L/98-01)
___ CSE 101 or higher	(1 credit hour)	Career Exploration

TOTAL FOR ASSOCIATE DEGREE 76-78

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

STUDENT'S FULL LEGAL NAME (PRINT)

STUDENT I.D. NUMBER

DEPARTMENT APPROVAL SIGNATURE

8/25/06 SG 8/29/06

DATE

ACADEMIC ADVISOR/COUNSELOR SIGNATURE

DATE