



APPLIED TECHNOLOGIES

Albuquerque Technical Vocational Institute Graduation Evaluation Checklist 2005 - 2006 Catalog

ELECTRONICS TECHNOLOGY – GENERAL 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
___ ELEC 275L	(3 credit hours)	Soldering Techniques (or ELEC 276L & ELEC 277L)
___ ENG 101	(3 credit hours)	College Writing (ENG 102 is acceptable substitution)

TOTAL FOR CERTIFICATE 24

ADDITIONAL ASSOCIATE DEGREE REQUIREMENTS

___ CHEM 121/121L	(4 credit hours)	General Chemistry I/Lab
or ___ PHYS 151/151L	(5 credit hours)	Physics I/Lab
___ ELEC 114L	(6 credit hours)	Semiconductor Devices (ELEC 114A & ELEC 114B)
___ ELEC 118L	(6 credit hours)	Electromechanical Devices (ELEC 118A & 118B)
___ ELEC 203L	(4 credit hours)	Introduction to Microprocessors (203A & 203B)
___ ELEC 205L	(4 credit hours)	Analog Circuits
___ ENG 119	(3 credit hours)	Technical Communications (ENG 219 is acceptable substitution)
___ MATH 119	(4 credit hours)	Methods of Problem Solving
or ___ MATH 120	(4 credit hours)	Intermediate Algebra
or ___ MATH 121	(3 credit hours)	College Algebra

<i>or</i> ___MATH 145	(3 credit hours)	Introduction to Probability and Statistics
<i>or</i> ___MATH 150	(4 credit hours)	Advanced Algebra
<i>or</i> ___MATH 162	(4 credit hours)	Calculus I
<i>or</i> ___MATH 180	(3 credit hours)	Elements of Calculus I
___HUM/SOC	(3 credit hours)	Humanities or Social/Behavioral Science Elective
___PC 201	(4 credit hours)	Electromechanical System Troubleshooting
___Elective	(3 credit hours)	Concentration or Technical elective from approved list below

Additional 18 Credits from Concentration Electives

___ELEC 217	(3 credit hours)	Upgrading and Repairing PCs
___ELEC 221	(3 credit hours)	Advanced Upgrading and Repairing PCs
___ELEC 223	(6 credit hours)	RF/Consumer Electronics (ELEC 216/98)
___MEMS 220	(5 credit hours)	MEMS Manufacturing Process
___PHOT 101L	(4 credit hours)	Introduction to Photonics & Photonics Safety (ELEC 111L)
___PHOT 201L	(6 credit hours)	Optics (LEOT 206/98-01)
___PHOT 207L	(4 credit hours)	Introduction to Laser Systems (LEOT 205L/98-01)
___PHOT 217L	(6 credit hours)	Advanced Laser Systems with Applications (LEOT 217L/98-01)
___PC 212L	(2 credit hours)	Vacuum Systems II

TECHNICAL ELECTIVES

___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
___ELTR 214L	(3 credit hours)	PLC Systems Operation and Troubleshooting
___MATT 102	(2 credit hours)	Metals Blueprint Reading I
___MATT 105L	(2 credit hours)	Basic Supporting Machine Tool Principles
___MATT 113	(2 credit hours)	Metals Blueprint Reading II
___MEMS 101	(3 credit hours)	Introduction to MEMS (PC210)

TOTAL CREDITS FOR DEGREE 79-81

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

STUDENT'S FULL LEGAL NAME (PRINT)

STUDENT I.D. NUMBER

DEPARTMENT APPROVAL SIGNATURE

DATE

8/16/05

ACADEMIC ADVISOR/COUSELOR SIGNATURE **DATE**

8/9/05