



## TECHNOLOGIES DEPARTMENT

### Albuquerque Technical Vocational Institute Graduation Evaluation Checklist 2004 - 2005 Catalog

#### ELECTRONICS TECHNOLOGY

##### Process Control 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 276L	(2 credit hours)	Soldering Techniques (7 ½ weeks)
____ ENG 101	(3 credit hours)	College Writing (ENG 102 is acceptable substitute)

**TOTAL FOR CERTIFICATE** ..... 23

##### ADDITIONAL ASSOCIATE DEGREE REQUIREMENTS

____ CHEM 111/112L	(4 credit hours)	Introduction to Chemistry/Lab
<i>or</i> ____ CHEM 121/121L	(4 credit hours)	General Chemistry I/Lab
<i>or</i> ____ PHYS 151/151L	(5 credit hours)	Physics I/Lab
<i>or</i> ____ PHYS 160/160L	(5 credit hours)	General 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 substitute)
____ MATH 119	(4 credit hours)	Methods of Problem Solving
<i>or</i> ____ MATH 120	(4 credit hours)	Intermediate Algebra
<i>or</i> ____ 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
____PC 201	(3 credit hours)	Electromechanical Systems
____PC 203	(2 credit hours)	PLC Theory and Applications (7.5 weeks)
____PC 204	(2 credit hours)	Feedback Theory and Applications (7.5 weeks)
____PC 205	(2 credit hours)	Sensor Theory and Applications (7.5 weeks)
____PC 211	(2 credit hours)	Power RF
____PC 212L	(2 credit hours)	Vacuum Systems 2
____HUM/SOC	(3 credit hours)	Humanities or Social/Behavioral Science Elective

**Plus five additional credits from these courses:**

____PC 206	(2 credit hours)	CIM Theory and Applications (7.5 weeks)
____PC 207	(2 credit hours)	Mobile Robot Design and Construction (7.5 weeks)
____PC 208	(2 credit hours)	Industrial Robot Theory and Applications (7.5 weeks)
____SMT 204/204L	(5 credit hours)	Semiconductor Manufacturing Technology/Lab (SMT201/201L) and (SMT 211/211L) are equivalent to SMT 204
____TECH ELEC	(3 credit hours)	Select from Technical Electives

**TECHNICAL ELECTIVES**

____ELEC 214L	(3 credit hours)	Troubleshooting Techniques
____ELEC 277L	(2 credit hours)	Advanced Soldering Techniques (7.5 weeks)
____ELEC 279	(3 credit hours)	Electronics Refresher
____ELEC 296	(1-8 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 102	(2 credit hours)	Metals Blueprint Reading I
____MATT 105L	(2 credit hours)	Basic Supporting Machine Tool Principles
____MEMS 101	(3 credit hours)	Introduction to MEMS (PC210)

**TOTAL CREDITS FOR DEGREE ..... 74-76**

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

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STUDENT'S FULL LEGAL NAME (PRINT)

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STUDENT I.D. NUMBER

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DEPARTMENT APPROVAL SIGNATURE

\_\_\_\_\_  
DATE

369/1/04

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ACADEMIC ADVISOR/COUSELOR SIGNATURE

\_\_\_\_\_  
DATE