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Electronic Technology/Microcomputer Associate in Applied Science

(page 1 of 2)



Engineering/Manufacturing & Industrial Technology

ELECTRONIC TECHNOLOGY/ MICROCOMPUTER – ASSOCIATE IN APPLIED SCIENCE (ETMS.AAS)

Electronic technologists are employed in such fields as digital computer maintenance, voice and data communications, radio and television broadcasting, medical electronic instrumentation, high-tech manufacturing, research and development in laboratory settings. Students may also work to achieve A+ certification for employment as personal computer service professionals. A+ certification is the “journeyman’s card” for computer technologist, which is recognized by CompTIA. The non-profit Computing Technology Industry Association (CompTIA) is widely recognized as the standard for qualified computer service professionals.

Minimum credits:.....	61
Minimum cumulative GPA:.....	2.0
Minimum grade in all courses:.....	2.0
Minimum JCC credits:.....	12
MACRAO agreement:.....	No

GENERAL EDUCATION REQUIREMENTS – (21 credits)

ADO 1: Write clearly, concisely and intelligibly (3 credits)

Take the following:

ENG 131 Writing Experience

ADO 2: Speak clearly, concisely and intelligibly (3 credits)

Take the following:

SPH 240 Interpersonal Communication

ADO 3: Demonstrate computational skills and mathematical reasoning (3-5 credits)

Take the following:

MTH 120 Beginning Algebra or higher

ADO 4: Demonstrate scientific reasoning (4-5 credits)

Choose one of the following:

- BIO 110 Introductory Biology
- BIO 131 General Biology
- BIO 132 Human Biology
- BIO 155 Human Anatomy & Physiology
- BIO 220 Microbiology
- BIO 253 Human Anatomy & Physiology I
- CEM 131 Fundamentals of Chemistry
- CEM 141 General Chemistry I
- GEL 160 Introduction to Geology
- NSC 131 Contemporary Science
- PHY 131 Conceptual Physics
- PHY 151 Astronomy
- PHY 231 College Physics I
- PHY 251 Modern University Physics I

ADO 5: Understand human behavior and social systems, the principles which govern them, and their implications for the present and future (3-4 credits)

Choose one of the following:

- ECN 231 Macroeconomics
- ECN 232 Microeconomics
- HIS 131 Western Civilization to 1555
- HIS 132 Western Civilization 1555 to Present
- HIS 231 Development of the US through the Civil War
- HIS 232 Development of the US from the Civil War
- HIS 235 20th Century History
- PLS 141 American National Government
- PSY 140 Introduction to Psychology
- SOC 231 Principles of Sociology

ADO 6: Understand aesthetic experience and artistic creativity (3 credits)

Choose one of the following:

- ART 111 Art History: Prehistoric to 1400
- ART 112 Art History: Renaissance to Present
- ENG 210 Introduction to Film
- ENG 246 Short Story & Novel
- ENG 247 Poetry & Drama
- ENG 252 Shakespeare
- ENG 254 Children’s Literature
- ENG 255 American Literature – 19th Century
- ENG 256 American Literature – 20th Century
- HUM 131 Cultural Connections
- MUS 131 Understanding Music
- THR 116 Introduction to Theatre

ADO 7: Think critically

Program courses meet this requirement

ADO 8: Make responsible decisions in personal and professional contexts (1-3 credits)

Choose one of the following:

- HPF 160 Wellness
- HPF 277 Stress Management
- HPF 283 Managing Stress & Holistic Health
- PHL 236 Ethics

ADO 9: Work productively with others, recognizing individual contributions to group success

Program courses meet this requirement

ADO 10: Understand and respect the diversity and interdependence of the world’s peoples and cultures

Program courses meet this requirement

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(page 2 of 2)

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MICROCOMPUTER RELATED REQUIREMENTS – (7 credits)

Take the following:

CIS 170 Programming in C++

AND choose 4 credits from the following:

Any ELT or CIS course that best meets your educational goals.

MICROCOMPUTER CORE REQUIREMENTS – (33 credits)

Take the following:

BUA 120 Human Relations in Business

CIS 012 Windows® Workshop

CIS 013 Operating Systems: UNIX

CIS 016 Microsoft® DOS® Workshop

CIS 101 Introduction to Computer Systems

CIS 160 Programming in Visual Basic.Net

CIS 174 PC Repair/A+ Hardware Component

CIS 175 PC Repair/A+ Software

CIS 176 A+ Certification Exam Preparation

CIS 177 Network+/Networking Fundamentals

CIS 179 Network+ Certification Exam Preparation

ELT 119 DC Fundamentals

ELT 124 AC Fundamentals

ELT 129 Semiconductor Devices

ELT 139 Digital Electronic Fundamentals