# Technical Specialist Technical Certificate

**TC31**

## Curriculum

### Required Courses:

- COMP 1000 Introduction to Computer Literacy (3)
- ENGL 1101 Composition and Rhetoric (3)

### Occupational Electives: Select nine credit hours.

- Select nine credit hours from the Occupational Course Electives list.
- Students should coordinate with a faculty advisor to design coursework focused on a specific academic goal or career path.

### General Education Courses

#### Humanities/Fine Arts Elective: Select TWO courses below.

- ARTS 1101 Art Appreciation (3)
- ENGL 2130 American Literature (3)
- MUSC 1101 Music Appreciation (3)
- HUMN 1101 Introduction to Humanities (3)

#### Social/Behavioral Science: Select TWO courses below.

- PSYC 1101 Introductory Psychology (3)
- ECON 1101 Principles of Economics (3)
- ECON 2105 Macroeconomics (3)
- ECON 2106 Microeconomics (3)
- SOCI 1101 Introduction to Sociology (3)
- POLS 1101 American Government (3)
- HIST 1111 World History I (3)
- HIST 1112 World History II (3)
- HIST 2111 U.S. History I (3)
- HIST 2112 U.S. History II (3)

#### Natural Sciences/Mathematics: Select ONE course below.

- MATH 1101 Mathematical Modeling (3)
- MATH 1111 College Algebra (3)
- MATH 1112 College Trigonometry (3)
- MATH 1113 Precalculus (3)
- BIOL 1111 Biology I (3) + BIOL 1111 Lab (1)
- CHEM 1211 Chemistry I (3) + CHEM 1211 Lab I (1)
- PHYS 1110 Conceptual Physics (3) + PHYS 1110 Lab (1)

#### General Education Electives: Select six credit hours.

- Any Humanities, Social/Behavioral, or Natural Science/Mathematics course listed above, but not yet taken.

### Total Credit Hour (minimum):

- 36

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### General Education Core
- Any General Education Core course listed above, but not yet taken, OR,
- BIOL 1112 Biology II (3) and BIOL 1112L Lab (1)
- BIOL 2113 Anatomy + Physiology I (3) and BIOL 2113L Lab (1)
- BIOL 2114 Anatomy + Physiology II (3) and BIOL 2114L Lab (1)
- BIOL 2117 Introduction to Microbiology (3) + BIOL 2117L Lab (1)
- MATH 1131 Calculus I (4)
- MATH 1132 Calculus II (4)
- PHYS 1112 Introductory Physics II (3) + PHYS 1112L Lab (1)
- PSYC 2103 Human Development (3)
- PSYC 2250 Abnormal Psychology (3)

### Accounting
- ACCT 1125 Individualized Tax Accounting (3)
- ACCT 2145 Personal Finance (3)
- AIRC 1005 Refrigeration Fundamentals (4)
- AIRC 1030 HVACR Electrical Fundaments (4)
- AIRC 1050 HVACR Electrical Components and Controls (4)

### Allied Health
- ALHS 1011 Structure and Function of the Human Body (5)
- ALHS 1060 Diet and Nutrition (2)
- ALHS 1090 Medical Terminology (2)

### Automotive Technology
- AUTT 1010 Automotive Technology Introduction (2)

### Building Automation Systems
- BUAS 1020 BAS Electrical Concepts I (3)

### Computer Information Systems Technology
- CIST 1001 Computer Concepts (4)
- CIST 1130 Operating Systems Concepts (3)
- CIST 1200 Database Management (4)
- CIST 1220 Structured Query Language (SQL) (4)
- CIST 1305 Program Design and Development (3)
- CIST 1510 Web Development I (3)
- CIST 1601 Information Security Fundamentals (3)
- CIST 2127 Comprehensive Word Processing Techniques (3)
- CIST 2128 Comprehensive Spreadsheet Techniques (3)
- CIST 2129 Comprehensive Database Techniques (3)
- CIST 2130 Desktop Support Concepts (2)

### Criminal Justice
- CRJU 1010 Introduction to Criminal Justice (3)

### Drafting
- DFTG 1101 CAD Fundamentals (4)
- DFTG 1103 Multiview/Basic Dimensioning (4)
- DFTG 1105 3D Mechanical Modeling (4)
- DFTG 1107 Advanced Dimensioning/Sectional Views (4)
- DFTG 1109 Auxiliary Views/Surface Development (4)
- DFTG 1111 Fasteners (4)
- DFTG 1113 Assembly Drawings (4)
- DFTG 1125 Architectural Fundamentals (4)
- DFTG 1127 Architectural 3D Modeling (4)
- DFTG 1131 Residential Drawing II (4)
- DFTG 1133 Commercial Drawing I
### Design and Media Production
- DMPT 1000 Introduction to Design (4)
- DMPT 1010 Raster Imaging (4)
- DMPT 2300 Foundations of Interface Design (4)
- DMPT 2310 Animation for Web (4)

### Early Childhood Care and Education
- ECCE 1101 Introduction to Early Childhood Care and Education (3)
- ECCE 1103 Child Growth and Development (3)
- ECCE 1105 Health, Safety and Nutrition (3)
- ECCE 2202 Social Issues and Family Involvement (3)
- ECCE 2320 Program Administration and Facility Management (3)
- ECCE 2322 Personnel Management (3)
- ECCE 2330 Infant/Toddler Development (3)
- ECCE 2332 Infant/Toddler Group Care and Curriculum (3)

### Electrical and Computer Engineering Technology
- ECET 2120 Electronic Circuits I (4)

### Electronics Technology
- ELCR 1005 Soldering Technology (1)
- ELCR 2590 Fiber Optics Systems (3)

### Engineering Technology
- ENGT 1000 Introduction to Engineering Technology (3)

### Management
- MGMT 1100 Principles of Management (3)
- MGMT 1105 Organizational Behavior (3)
- MGMT 1110 Employment Rules & Regulations (3)
- MGMT 1115 Leadership (3)
- MGMT 1120 Introduction to Business (3)
- MGMT 1125 Business Ethics (3)
- MGMT 2115 Human Resource Management (3)
- MGMT 2125 Performance Management (3)
- MGMT 2130 Employee Training and Development (3)
- MGMT 2140 Retail Management (3)
- MGMT 2145 Business Plan Development (3)
- MGMT 2155 Quality Management Principles (3)
- MGMT 2205 Service Sector Management (3)
- MGMT 2210 Project Management (3)
- MGMT 2215 Team Project (3)

### Marketing
- MKTG 1100 Principles of Marketing (3)
- MKTG 1130 Business Regulations and Compliance (3)
- MKTG 1160 Professional Selling (3)
- MKTG 1190 Integrated Marketing Communications (3)
- MKTG 1270 Visual Merchandising (3)
- MKTG 1370 Consumer Behavior (3)

### Welding
- WELD 1000 Introduction to Welding Technology (4)