

# COMPUTER SYSTEMS

## Systems and Networking Support Major

### TECHNOLOGY & WORKFORCE DEVELOPMENT DIVISION

#### Program of Study

The Systems & Networking Support program is designed for students who are analytical, enjoy problem-solving, troubleshooting hardware, software, and connectivity issues. Connectivity is mandated by today's technology. In addition to telecommunications, networking and operating systems, students in the program are introduced to CAD, PLCs (Programmable Logic Controllers), web design, electrical concepts and media types including fiber optics and radio frequency.

Graduates of the program will gain experience in the following: technical skills in connectivity systems management; including LAN and WAN concepts, problem-solving using structured logic and mathematics skills; written and verbal communications skills.

*The faculty has identified the following Learning Outcomes for all graduates:*

- Identify, compare, and use basic data communication terms, basic tools of data communications, and elements necessary for connectivity between networks and computer systems.
- Effectively configure and troubleshoot computer/networking hardware and software.
- Configure, implement, and troubleshoot a network.
- Navigate and/or configure multiple operating system platforms.

#### POTENTIAL OCCUPATIONS:

- Network Assistant
- Network Analyst
- WAN Technician
- Network Administrator
- Telecommunications Specialist

#### Associate of Applied Business

##### TECHNICAL CONCENTRATION

			Credit Hrs.
CIT	1210	Visual Programming . . . . .	4
CIT	1241	Microcomputers . . . . .	3
CIT	1310	Scripting . . . . .	2
CIT	1340	Telecommunications. . . . .	2
CIT	1350	Infrastructure Media . . . . .	2
CIT	1400	Networking I . . . . .	4
CIT	2010	Operations & Management . . . . .	3
CIT	2200	Database . . . . .	4
CIT	2400	Networking II. . . . .	4
CIT	2640	Server Management . . . . .	3
CIT	2902	SNS Capstone . . . . .	3
<b>Total Technical Credit Hours . . . . .</b>			<b>34</b>

##### GENERAL EDUCATION AND RELATED COURSES

GEN	1000	First-Year Seminar . . . . .	1
CAD	1100	Intro to CAD . . . . .	3
CIT	1090	Computer Fundamentals . . . . .	3
DMT	1020	Web Design I. . . . .	3
EET	1050	Electricity. . . . .	3
ENG	1900	Technical Writing . . . . .	3
Choose One:		ENG 1050 College Comp I or ENG 1020 . . . . .	3
MTH	1310	Intermediate Algebra . . . . .	4
MTH	1410	Number Bases . . . . .	1
Choose One:		PSY 1210 General Psychology or SOC 2010 Sociology . . . . .	3
SPE	2010	Effective Speaking . . . . .	3
		*Humanities Elective . . . . .	3
<b>Total General Education &amp; Related Credit Hours . . . . .</b>			<b>33</b>

##### TOTAL CREDIT HOURS

67

\* See page 95 for a listing of specific electives.

See your advisor for appropriate course selection.

*For available Certificate Program options, see catalog pages 97-103.*

\*\* All students graduating from Terra State Community College with an Associate degree of any kind will be functionally proficient in common computer operations and applications. Please see your academic advisor or academic division office for further details.

To determine when courses are scheduled, see program curriculum sheet which is available from the Enrollment Services office in Building A/Room 100, from the Technology and Workforce Development Division office, Building E, Room 107 or on the web at [www.terra.edu](http://www.terra.edu).