CAREER CLUSTER - PATHWAY FRAMEWORK

Career Cluster: Information Technology **PATHWAY OPTIONS:** ☐ Information Support & Services □ Network Systems Programming & Software Development **ALTERNATIVE OCCUPATIONS: PATHWAY:** Programing and Software Development Applications Engineer **DESCRIPTION:** Game Programmer Careers in programing and software development **Operating Systems Designer** involve the design, development, implementation, **Operating Systems Engineer** and maintenance of computer systems and software, requiring knowledge of computer operating systems, programming languages, and software development. **OCCUPATIONAL GOAL** Computer Programmer **Pathway Specific** Knowledge & Skills Identify and analyze customer/ organizational network system needs.\ II. Analyze a network system. III. Design a network system. IV. Perform network system installation. V. Perform network administration. Approved VI. Perform network maintenance. Course Sequence **Knowledge & Skills** Ι. **Academic Foundations** II. Communications III. Problem-solving and Critical Thinking IV. Information Technology Applications Systems VI. Safety, Health, and Environmental VII. Leadership and Teamwork VIII. Ethics and Legal Responsibilities IX. Employability and Career Development **Technical Skills**