TFG Technology-Fort Gordon

TFG 7531  Telecommunication Systems
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
This course will provide students the ability to design a secure voice and
data network for subscribers. A systems approach will be used to study
telecommunications networks for the understanding of the function of
individual components and subsystems. Attention will be given to the
theory of different existing and emerging technologies. Students will
receive an overview of public and private telecommunications systems,
fundamentals of traffic engineering, switching, transmission, and signaling.
Emphasis will be placed on the function of discrete components as well as
complete systems.

TFG 7532  Network Operations and Management
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
This course examines the management tools and software applications
needed to manage the variety of local and wide area networks. The
course will address data communication devices, telecommunication
devices, simple network management protocol, remote monitoring,
telecommunication management, and network operation and security.

TFG 7533  Network Security
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
This course provides an in-depth study of network Security. Students will
gain a respect for the threats and vulnerabilities facing U.S. voice and data
networks and learn how networks are protected through organizational
policy, software application, methodologies, and equipment. Topics
discussed are: cryptography, Public Key Infrastructure (PKI), Internet
Protocol Security (IPSEC), IP and bulk encryption, firewalls, intrusion
detection systems, Certification and accreditation processes.

TFG 7534  Network Design
3 Credit Hours.  3 Lecture Hours.  0 Lab Hours.
This course examines a structured, systematic, top-down process to
design telecommunications networks. Some specific objectives are:
students will understand the structured network design process, the logical
and physical design process for access, distribution and core networks
and the planning processes for host/network security and management.