

NETC - Computer Network Engineering Technology

Courses

NETC 121 Network Communications 1

4 Credits. 3 Lecture Hours. 2 Lab Hours.

A course on computer networks and network operating systems. Topics include: network topology, local and wide area networks, connecting devices to networks, basic network software and file sharing, and problem solving. This course helps students prepare for the CompTIA Network+ exam.

Prerequisites: FYE 120 or placement into ENG 101 MAT 093 (minimum grade C) or appropriate Math placement

NETC 122 Network Communications 2

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A continuation of NETC 121. Topics include: access control lists, routing protocols, spanning tree, VLANs and network security, and network address translation.

Prerequisites: NETC 121

NETC 130 Introduction to Cybersecurity

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on fundamental concepts, principles, and practices of cybersecurity. Topics include: threats, risks, and vulnerabilities that exist in today's digital landscape; and how to protect computer systems, networks, and data from unauthorized access, attacks, and exploitation.

Prerequisites: NETC 121 and ENG 101

NETC 170 Governance and Management of IT

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on frameworks for organizational governance of information technology. Topics include: IT portfolio management, risk and compliance, and business continuity planning and impact analysis.

Prerequisites: FYE 120 or placement into ENG 101

NETC 180 Information Risk Management

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on methods for analyzing and classifying organizational data to maintain information security. Topics include: information ownership; information threats, vulnerabilities, and exposure; and investigating and assessing risk.

Prerequisites: NETC 122 and NETA 155

NETC 191 Part-Time Cooperative Education 1: Computer Network Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their first part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

NETC 192 Part-Time Cooperative Education 2: Computer Network Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their second part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETC 191

NETC 193 Part-Time Cooperative Education 3: Computer Network Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their third part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETC 192

NETC 194 Part-Time Cooperative Education 4: Computer Network Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fourth part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETC 193

NETC 195 Part-Time Cooperative Education 5: Computer Network Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their fifth part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETC 194

NETC 196 Part-Time Cooperative Education 6: Computer Network Engineering Technology

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking an associate's degree participate in their sixth part-time field learning experience related to their degree. Students are expected to register for academic courses during the same semester. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETC 195

NETC 230 Network Security Design

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on developing security to protect business systems. Topics include: design and testing of various layered network security software and hardware.

Prerequisites: NETA 155 and NETC 121

Corequisites: NETC 122

NETC 240 Emerging Topics in Computer Network Engineering Technology

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on current industry needs related to Computer Network Engineering Technology. Topics include: voice-over-internet protocol (VoIP), cloud computing, and Linux.

Prerequisites: NETC 122 and NETA 155

NETC 280 IT Documentation

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on documentation of IT systems focusing on general regulatory compliance requirements. Students use Microsoft Visio for laboratory activities.

Prerequisites: NETC 170 and ENG 101 and NETA 155

NETC 290 Computer Network Engineering Technology Capstone Project

3 Credits. 2 Lecture Hours. 2 Lab Hours.

Students work in teams to design and build network solutions while demonstrating knowledge and skills gained in the Computer Network Engineering Technology program.

Prerequisites: NETC 122 and NETC 230 and NETA 155 and 6 credits of English Composition

NETC 291 Full-Time Cooperative Education 1: Computer Network Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

NETC 292 Full-Time Cooperative Education 2: Computer Network Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETC 291

NETC 293 Full-Time Cooperative Education 3: Computer Network Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETC 292

NETC 294 Internship 1: Computer Network Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their first unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: CIT 190

NETC 295 Internship 2: Computer Network Engineering Technology

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking an associate's degree participate in their second unpaid field learning experience related to their degree. Students must follow applicable policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: NETC 294