

**Course Number:** NET 4100

**Course Title:** Network Design and Administration

**Course Description:**

Administration of a computer network. Design, implementation, and management of computer networks using multi-user network operating systems. Allocating and managing network resources, sharing resources across a network, monitoring network traffic, security. Ethical issues. Unscheduled laboratory.

**Prerequisites:** NET1200.

**Credit hours:** 3

**Learning Outcomes:**

Upon the successful completion of this course, students will be able to:

1. Understand key objectives and techniques for the administration of a computer network.
2. Prepare the design, implementation, and management documentation of computer networks, including hardware, software, and operating systems.
3. Plan the design, implementation, and management documentation for computer operations centers, including physical device placement, environmental controls, power requirements, and network connectivity.
4. Prepare policies and procedures for the allocating and managing network resources, sharing resources across a network, and monitoring network traffic.
5. Develop and document relevant security procedures for the administration and management of both physical and logical network resources.

**Indiana Tech**  
*College of Professional Studies*  
NET 4100 Network Design & Administration  
Online Course Syllabus Content

**Instructor Information**

Please see Professor Profile at the Blackboard instructional site.

**Course Schedule**

Please see Course Schedule in the Course Syllabus area of the Blackboard instructional site.

**Online Course Policies**

All of the online courses taken by students are required to follow the policies posted online at <http://online.indianatech.edu/tech-policies/policies/>. Please review the posted policies carefully. If you are unable to abide by the policies listed, please contact the Warrior Information Network (WIN) at 888.832.4742 and request to withdraw from this course.

**Textbook**

Oppenheimer, P. (2011). *Top-down networking design*. Indianapolis, Ind.: Cisco Press.

**Grading Events & Grading Criteria**

**Unless otherwise specified, all assignments must be submitted via Blackboard.**

Course Preparation Quiz	20
Module 1 Assignment	10
Module 1 Test	150
Module 2 Assignment	10
Module 2 Test	150
Module 3 Assignment	10
Module 3 Test	150
Module 4 Assignment	10
Module 4 Test	150
Module 5 Assignment	10
Module 5 Test	150
<b>Overall Total</b>	<b>820</b>

**Grading Scale**

The following grading scale will be used to assign a grade at the end of the course:

Percentage Achieved	Grade	Percentage Achieved	Grade	Percentage Achieved	Grade
93% or above	A	80% or above	B-	70% or above	C-
90% or above	A-	77% or above	C+	60% or above	D
87% or above	B+	73% or above	C	Below 60%	F
83% or above	B				

## Late Assignments

All assignments and required online activities are due according to the deadline listed in the course schedule. Granting deadline extension is the course instructor's autonomy.

## Incompletes

If you are unable to complete the requirements for this course due to extenuating circumstances, an Incomplete grade (I) may be granted if you meet the general guidelines stated below.

General Guidelines for submitting a course incomplete request:

- More than 50% of the course session has elapsed.
- The student has encountered an unexpected situation that is beyond his or her control.
- The student is
  - in good academic standing -- up-to-date on all of the course assignments and has at least an overall passing grade,
  - able to complete all of the remaining coursework within a session (5 weeks for a undergraduate course and 6 weeks for a graduate course) that immediately follows the session the student is currently enrolled, and
  - able to provide support documentations to substantiate the need for extra time should a session is not enough to complete the course requirements.

If an Incomplete is granted, the instructor will set a deadline for all work to be completed. **The deadline cannot go past one (1) session.** All incomplete grades and deadlines are subject to approval by the designated University authority.

## Course Related Communication

Online courses are conducted in an accelerated format. Timely communication is very important. When receiving emails from your classmates or instructor, please respond as soon as you can.

Students are **REQUIRED** to use their Indiana Tech email account for all course related communication. The most direct, and effective, way to email your course instructor and classmates, is by using the Send Email function within the Blackboard course site. When you use the Send Email function, you automatically receive a carbon copy of the email you sent. In the event when you need to substantiate your claim that you did email your classmates or instructor, you can show that carbon copy to the person(s) who requested it.

Please note that Blackboard only permits you to send email, it does not provide you with the check email function. All of the emails your classmates and instructor send to you will be delivered to your Indiana Tech email account. You are strongly encouraged to check your Indiana Tech email account regularly, preferably several times a week, to minimize the likelihood of miscommunication.

The University policy requires each online course instructor to respond to a student's email within 24 hours. Unless there is an extraneous situation that prevents the instructor from following this rule, you can expect to hear from the instructor within 24 hours. If you don't receive a reply within 24 hours, please do not hesitate to follow up with another email or forward the carbon copy of the email you sent to [OnlineSupport@IndianaTech.edu](mailto:OnlineSupport@IndianaTech.edu) with a note "Please help. It's been 24 hours and I have not heard from my instructor" and the University support staff will act on your behalf to contact your course instructor.