

# **INTERSESSION 2015**

**May 18, 2015 – June 14, 2015**

## **Computer Science Special Topics**

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### **CS 491 – 301 / CS 591 - 301**

Monday, Wednesday, Friday  
3:40 – 5:30 p.m.  
PARK 202

Instructor - Dr. Bidyut Gupta

## **Cisco IP Multicasting: Protocol Independent & Dependent Approaches**

Description: A number of emerging network applications requires the delivery of packets from one or more senders to a group of receivers. This kind of delivery is known as multicasting. These applications include bulk data transfer, for example, transfer of a software upgrade from a software developer to users needing the update, streaming continuous media like the transfer of the audio, video, and text of a live lecture to a set of distributed lecture participants, shared data applications such as teleconferencing, data feeds such as stock quotes, Web cache updating, and interactive gaming. In this course the objective is to introduce the different multicast protocols which are currently being used in industries, like Cisco, Juniper Networks etc. and high light the different Quality of Service (QoS) measures adopted by the current technology.

Prerequisite: CS 440 with a grade C or better, or consent of the instructor.

Textbooks: (1) Computer Networks and Internets with Internet Applications by Douglas E. Comer, Prentice hall, 6<sup>th</sup> Edition.  
(2) Computer Networking – A top-Down Approach, by Kurose and Ross, Pearson, 6<sup>th</sup> Edition