

SLHS 658: Speech Perception in normal and impaired ears
Spring 2007
Dr. Krishnan

Objectives

- 1. Develop an understanding of the acoustic features important for perception of speech**
- 2. Develop an appreciation for the theories of speech perception**
- 3. Understand how speech perception is altered consequent to hearing loss**
- 4. Understand how speech perception is affected by adverse listening conditions for normal and impaired ears**
- 5. Understand how speech is encoded in the auditory system**
- 6. Understand the implications for prosthesis development**

Course Format: Seminar

Students will present and discuss published papers in the following areas of speech perception:

- I. Speech perception overview**
- II. Theories of speech perception**
- III. Speech perception in impaired ears**
- IV. Speech perception in adverse listening conditions**
- V. Neural encoding of speech**
- VI. Signal processing strategies for hearing prosthesis**

Presentations have to be prepared at least one week before presentation and presented to the instructor for approval before a copy of the presentation is distributed to fellow students. It is expected that all students review all articles and be prepared to facilitate a meaningful discussion. I will primarily serve as the moderator.

Assessment: Final grade for the course will be based on evaluation of: presentations, participation (initiation and sustaining) in discussions, and a final 10 page term paper in one of the above areas.