

Syllabus of Record

Purpose

The syllabus of record (SOR) serves five audiences:

1. Faculty can use the SOR as a blueprint for designing course syllabi. Faculty are free to add to the content in the SOR, but the required activities, objectives, and methods of evaluation in the SOR must be maintained.
2. Students can use the SOR to determine, before they register, the skills they can expect to engage in and what they can expect to have learned upon successful completion of a course.
3. The SOR provides a standard format that other schools can use to determine transfer credit.
4. Faculty governance (e.g., CCC, UCC) use the SOR when evaluating course-change and new course proposals.
5. Accreditation bodies may use the syllabus of record to view the content taught in every section of a course.

The syllabus of record (SOR) is a blueprint for building a course. It provides details on the minimum structure and content for the course so that units can ensure knowledge is structured throughout the curriculum. It is not necessarily meant to articulate every aspect of each week of a course. Therefore, when constructing an SOR, careful attention must be paid to what it contains. If a unit wishes to propose a course in which content is quite rigid and fixed, then the various sections of the SOR would reflect that. On the other hand if a unit wishes to propose a course with content to be selected from a range of specified possibilities and/or a course with little fixed content with the bulk of the content being determined by the specific instructor, then the SOR would indicate that.

The SOR [guidelines](#) can really help with creating a successful SOR.

Course Data

Course Code

HRG 508

Title

Psychoacoustics

Credits

3

Prerequisites

Admission to the audiology program and successful completion of HRG 504: Instrumentation and Hearing Science.

Description

Psychoacoustics is the study of the relationship between a sound stimulus and the behavioral response it produces in a listener. Research methodology in the field will be discussed and applied to current measures of the physical and psychological characteristics of sound and perception. Applications to clinical audiology will be addressed.

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Objectives

After successful completion of the course the students will be able to

1) Application/Compute:

Compute the physical and psychological dimensions of sound

2) Analysis/Compare:

Compare the physical and psychological dimensions of sound

3) Evaluation/Evaluate:

Evaluate various classical and contemporary methods employed in psychoacoustic research

4) Analysis/Examine:

Examine the relationship between intensity and loudness

5) Analysis/Analyze:

Analyze the relationship between frequency and pitch

6) Knowledge/Describe:

Describe temporal processing in the auditory system

7) Knowledge/Describe:

Describe masking phenomena in the auditory system

8) Analysis/Analyze:

Analyze phenomena associated with binaural hearing

Topics

Week 1-2	Introduction, Classical and Contemporary Psychophysical Methods
Week 3	Theory of Signal Detectability
Week 4	Linearity, NTCs, PTCs, and Auditory Filters
Week 5	Pitch Perception
Week 6	Masking Patterns, Excitation Patterns, CMR, Coding Intensity
Week 7	Loudness and Intensity, Loudness Growth
Week 8	Equal Loudness Contours, Webers Law
Week 9	Temporal Integration and Multiple Looks
Week 10	Critical band, Across Channel Listening
Week 11	Binaural Hearing
Week 12	Temporal Processing
Week 13	Articulation Index (AI, SII) & Speech Transmission Index (STI)
Week 14	Speech Perception

Methods of Evaluation

Formal Examinations	60-70%
Design a study (project)	30-40%
Class Participation	5-10%

Sample Source(s) of Information

Moore, B.C.J. (2013). *An introduction to the psychology of hearing* (6th edition). BRILL.

Gulick, W.L., Gescheider, G.A., and Frisina, R.D. (1989). *Hearing: Physiological acoustics, neural coding, and psychoacoustics*. Oxford University Press, New York.

Gelfand, S.A. (2009). *Hearing: An introduction to psychological and physiological acoustics* (5th Edition). CRC Press.

Current editions as of the date of the proposal are listed. The most current edition will be used for this course.