

Graduate Level Spectrum Policy Course

This course is intended to provide an understanding of spectrum management to individuals with a bachelor's degree in physics or astronomy. The course creator shall create a 1-credit graduate-level course that meets the learning objectives listed below. The course will be presented online and completed asynchronously with the possibility of some assignments being peer evaluated.

Learning Objectives

The course should be designed so it meets the following learning objectives.

- Students will be able to describe the structure and responsibilities of national and international agencies associated with spectrum management.
- Students will be able to interpret allocation tables and will understand how frequencies are assigned to specific uses.
- Students will create responses to proposed FCC rules and will be able to explain how those comments fit into the process of the FCC Rulemaking process.
- Students will be able to identify the value of how spectrum supports the needs of their mission and determine methodologies for sharing spectrum with other users without compromising their mission's objectives.

Concepts to be included

- Spectrum Management terms
- National agencies (FCC, NTIA) and International agencies (ITU)
 - structure
 - responsibilities
- Standards governing boards and how to become a member
- Allocation tables
 - interpretation
 - How spectrum is assigned
- FCC Rule Making Process
 - Students will practice creating comments on FCC rules
- Competition
 - Identifying users of the spectrum
 - include some contemporary case studies
 - spectrum sharing
 - negotiation
 - value of spectrum

If Interested in Applying

Send an email to Valarie Bogan (vbogan@nrao.edu).

