

## 3C36: Cosmology and Extragalactic Astronomy

### Abbreviated Syllabus

**Cosmology:** Cosmological models; the microwave background; primordial nucleosynthesis; inflation; the cosmological constant; large-scale structure.

**Galaxies:** Morphology; chemical, physical, and dynamical structure; clusters of galaxies. Dark matter in galaxies and clusters of galaxies.

**Active Galactic Nuclei:** Taxonomy; characteristics of the central engine; reverberation mapping; quasar absorption-line systems; the quasar luminosity function; the evolution of galaxies and the star-formation history of the Universe.