

W16 CHEM 541 Syllabus

- Introduction to Toxicology
- Natural product toxins & poisons, microbial defences, plant toxins that led to therapeutics
- Mechanisms of drug degradation, toxicophores and development of toxin antidotes
- 'Good' toxins - cancer therapeutics, therapeutic index, drug delivery, mechanisms of drug targets
- Organic pollutant toxicity in bacteria
- Metal ions toxicity in bacteria
- How are antiseptics toxic to bacteria?
- Inorganic elements & life
- Introduction to the toxicology of metals
- Probing metal exposure-disease associations
- Environmental toxicology
- Introduction to endocrine disruptors
- Transgenerational effects