

Bioengineering

Bioengr 295O: Seminar: Research Topics in Bioengineering – Research in Modeling of Drug Effects Fall, Winter, Spring, Every Year

Catalog Description: Seminar, one to four hours. Limited to bioengineering graduate students. Advanced study and analysis of current topics in bioengineering. Discussion of current research and literature in protein-protein interaction network modeling, clinical estimation of drug effects, drug repurposing, and drug pathways. Student presentation of projects in research specialty. May be repeated for credit. S/U grading

Required Textbooks: None

Recommended Text: Journal articles, review papers, and other assigned reading materials

Instructor in Charge:

Prerequisites: Limited to bioengineering graduate students

Grading Structure: Presentation of research projects – 90%; Student Participation – 10%; S/U grading only.

Topics

- Protein-protein interaction networks
- Data curation, integration and interpretation
- Drug repurposing
- Drug pathways
- Observational studies in the electronic health record