BMEN E4000: Reproductive Bioengineering

Instructor: Prof. David Elad

Description: Human reproductive is driven by biochemical processes and controlled by the laws of physics (e.g., Newton’s laws). Understanding the physiology of reproduction, as well as development of pathologies, requires evaluation of the bio-physical and bio-engineering aspects of reproduction in concomitant with the biological and clinical features. Reproductive Bioengineering is a general phrase for any structural, mechanical, electrical, or other physical component involved in functional reproduction.

Objective: Exposure to biophysical and bioengineering aspects of human reproduction. The course content is designed for graduate and undergraduate (Seniors, MS, PhD) students, as well as for professionals who are interested in this field.