

# COURSE ANNOUNCEMENT

## PSL-7215 NanoBioScience

Winter Semester - 2006

**Class days, time, and location: TBA**

3 Credit Hours  
**CRN # 24753**

**Prerequisites:** Graduate standing or Consent of Instructor

**Description:**

One nanometer is 1/1,000,000,000th of a meter, and capable of accommodating within this space approximately 3 linearly arranged atoms. Nature, the master engineer, has designed and developed the ultimate machine, the fundamental unit of life the Cell. NanoBioScience has emerged as the next frontier science, aimed at understanding cellular processes occurring at the nanoscale. Understanding how cells and biomolecules function, in both temporal and spatial dimension at the atomic level and in real time, will ultimately provide the basis for the design and development of nanoscale devices, help in discovery and development of smart drugs and drug delivery systems, and direct and facilitate the development and growth of future biotechnologies. The impact of NanoBioScience in biology & medicine is profound. Hence, novel tools and technologies used in the study of NanoBioScience, and new discoveries and developments made in the field, will be the focus of this course.

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