

Biomedical Engineering Fundamentals

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FUNDAMENTALS OF BIOMEDICAL ENGINEERING (g) Intra + vascular = = intravascular within blood vessel (h) arthros + itis = arthritis = inflammation of joint = hypertension = high arterial blood pressure = pathophobia = fear of disease = sclerodermatitis = hardening of skin = gastro + intestine + ities = inflammation of the mucous membranes of both stomach and intestine

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Cell and tissue engineering includes the study of cellular mechanics and cell signaling, mechanotransduction, biosystems engineering and computational biology, nanotechnology, microfluidics, bioMEMS and gene chips, functional tissue engineering and biomaterials, tissue structure-function and cell-matrix interactions.

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Biomedical engineering (BME) or medical engineering is the application of engineering principles and design concepts to medicine and biology for healthcare purposes (e.g. diagnostic or therapeutic). This field seeks to close the gap between engineering and medicine, combining the design and problem solving skills of engineering with medical biological sciences to advance health care treatment, including diagnosis, monitoring, and therapy.

~~Biomedical engineering – Wikipedia~~

Biomedical engineering students are probably best qualified to take the Other Disciplines exam, which includes questions on mathematics, probability and statistics, chemistry, instrumentation and data acquisition, ethics and professional practice, electrical and other safety topics, engineering economics, statics, dynamics, strength of materials, material science, fluid mechanics and dynamics of liquids and gases, and electricity and magnetism.

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