BIOMEDICAL SCIENCES AND ENGINEERING (BSE)

Courses

BSE 611 Orientation credit: 1 Hour. (https://courses.illinois.edu/schedule/terms/BSE/611)
This course examines life skills for medical school: sleep, nutrition, understanding self, emotional intelligence, new vocabulary, clinical reasoning, thinking like a doctor and an engineer, resource review, problem solving, design, future patient care, systems, regulations. No graduate credit. 1 professional hour. Approved for S/U grading only.

BSE 612 Foundational Elements credit: 10 Hours. (https://courses.illinois.edu/schedule/terms/BSE/612)
This course covers the fundamental elements of medical science. The course serves as a baseline for the rest of the medical school curriculum. Topics to be covered include foundational anatomy, cell biology, histology, physiology, integration of engineering science, systems, microbiology, pharmacology, genetics, and behavioral science. No graduate credit. 10 professional hours. Approved for S/U grading only. Prerequisite: This course is restricted to students enrolled in the MD program at Carle Illinois College of Medicine.

BSE 613 Population Health credit: 2 Hours. (https://courses.illinois.edu/schedule/terms/BSE/613)
This course covers a range of topics including concepts of populations, social behavior, chronic disease, health care team, patient safety, statistics, big data, PCMH, palliative care, quality, compensation, and mobile health technologies. No graduate credit. 2 professional hours. Approved for S/U grading only. Prerequisite: This course is restricted to students enrolled in the MD program at Carle Illinois College of Medicine.

BSE 631 Cardiovascular credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/BSE/631)
Topics include ischemic heart Dx, cardiomyopathy/CHF, aortic stenosis, atrial fibrillation, peripheral vascular disease, pediatric ASD. No graduate credit. 4 professional hours. Approved for S/U grading only. Prerequisite: This course is restricted to students enrolled in the MD program at Carle Illinois College of Medicine.

BSE 632 Respiratory credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/BSE/632)
Topics include asthma – peds, COPD, Pulmonary Fibrosis, Respiratory failure, pulmonary vasculitis. No graduate credit. 3 professional hours. Approved for S/U grading only. Prerequisite: This course is restricted to students enrolled in the MD program at Carle Illinois College of Medicine.

BSE 633 Renal credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/BSE/633)
Topics include UTI with pyelonephritis, urinary obstruction-BPH, acute renal failure-toxic, chronic renal failure-DM, polycystic renal disease-peds. No graduate credit. 3 professional hours. Approved for S/U grading only. Prerequisite: This course is restricted to students enrolled in the MD program at Carle Illinois College of Medicine.

BSE 634 Clinical Neuroscience credit: 5 Hours. (https://courses.illinois.edu/schedule/terms/BSE/634)
Topics include neurovascular disorders, seizures, brain injury, dementia, tumors of the brain, disorders involving neuroinflammation, psychotic disorders, affective disorders, anxiety disorders, as well as disorders of the peripheral nervous system and neuromuscular junction. No graduate credit. 5 professional hours. Approved for S/U grading only. Prerequisite: This course is restricted to students enrolled in the MD program at Carle Illinois College of Medicine.

BSE 635 Musculoskeletal credit: 4 Hours. (https://courses.illinois.edu/schedule/terms/BSE/635)
Topics include primary inflammatory diseases such as rheumatoid arthritis, lupus, polymyalgia rheumatica and associated disorders, degenerative diseases of the joints such as osteoarthritis, primary diseases of muscle, primary diseases of bone such as osteoporosis and osteogenesis imperfecta as well as mechanical trauma to bone leading to fracture. No graduate credit. 4 professional hours. Approved for S/U grading only. Prerequisite: This course is restricted to students enrolled in the MD program at Carle Illinois College of Medicine.

BSE 636 Digestion credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/BSE/636)
Topics include GERD with stricture/Barrett's, Crohn's disease, peptic ulcer disease with hemorrhage, chronic diarrhea, pyloric stenosis – peds hepatitis C, colonic polyposis No graduate credit. 3 professional hours. Approved for S/U grading only. Prerequisite: Restricted to students enrolled in the MD program at Carle Illinois College of Medicine.

BSE 637 Nutrition & Metabolism credit: 2 Hours. (https://courses.illinois.edu/schedule/terms/BSE/637)
Topics include malabsorption syndrome, vitamin D deficiency, G6PD deficiency, TPN, obesity. No graduate credit. 2 professional hours. Approved for S/U grading only. Prerequisite: Restricted to students enrolled in the MD program at Carle Illinois College of Medicine.

BSE 638 Endocrinology credit: 3 Hours. (https://courses.illinois.edu/schedule/terms/BSE/638)
Topics include diabetes – type II, ketoacidosis, hypothyroidism, hyperthyroidism, adrenal insufficiency, Cushing's syndrome, diabetes insipidus. No graduate credit. 3 professional hours. Approved for S/U grading only. Prerequisite: Restricted to students enrolled in the MD program at Carle Illinois College of Medicine.

BSE 639 Genitourinary credit: 2 Hours. (https://courses.illinois.edu/schedule/terms/BSE/639)
Topics include hypogonadism, erectile dysfunction, testicular torsion, infertility, sexual orientation, BPH. No graduate credit. 2 professional hours. Approved for S/U grading only. Prerequisite: Restricted to students enrolled in the MD program at Carle Illinois College of Medicine.

Information listed in this catalog is current as of 07/2018