

Technical Standards – Examples

<p>Examples: Observation</p>	<p>Sufficient uncorrected or corrected visual acuity and color perception to:</p> <p>A. Resolve objects macroscopically as small as 0.2 mm;</p> <p>B. Observe motion and to observe and evaluate the human gait at 20 feet;</p> <p>C. See an object from a background of other objects</p> <p>D. See the difference in objects</p>	<ol style="list-style-type: none"> 1. Differentiate colors on slides, skin, and other images. 2. Evaluate posture, locomotion, and movement in a clinical setting 3. Identify landmarks on tympanic membranes 4. Identify materials correctly to be used in laboratories 5. Locate, identify, and describe foreign bodies, blood vessels, sutures, and skin lesions 6. Observe audiovisual materials on projection or overhead screens during lectures 7. Read printed materials on handouts and tests 8. Locate sections on a slide 9. Identify micro-photographic images 10. View a class room visual aid, including motion pictures, at 20 feet 11. Observe and evaluate the human gait at 20 feet 10. View a class room visual aid, including motion pictures projected on a screen, at 20 feet 12. Discriminate body height and depth differences of 2mm and identify anatomic landmarks for symmetry and postural differences visually 13. Differentiate small bacterial colonies from artifacts on agar plates 14. Appreciate fine structures in pathology and other images presented in class and in the textbook
	<p>Sufficient uncorrected or corrected visual acuity and color perception to resolve objects microscopically</p>	<ol style="list-style-type: none"> 1. Recognize stained bacteria microscopically 2. Observe, manipulate and accurately identify microbiologic cultures 3. Identify normal and pathologic cells and tissues

<p>Communication</p>	<p>Possess fluent formal and colloquial oral English skills</p>	<ol style="list-style-type: none"> 1. Demonstrate command of the course material to a professor or attending physician 2. Understand oral lectures, ask questions, and understand answers 3. Explain procedures and discuss results with professors and fellow students 4. Explain medical conditions to patients, attending physicians, and fellow students 5. Explain procedures and discuss test results on prescribed treatments with patients, attending physicians, and fellow students 6. Direct and coordinate activities of nurses, students, assistants, specialists, therapists, and other members of the health care team as approved and directed by the attending physician 7. Understand laboratory safety and emergency situation instructions
	<p>Capable of legible handwriting in English</p> <p>Capable of reading English effectively</p> <p>Able to perceive and convey sentiments nonverbally and effectively with patients and all members health care team</p>	<ol style="list-style-type: none"> 1. Complete a written medical history 2. Participate in small group discussions with laboratory partners 3. Prepare classroom reports 4. Prepare accurate and legible documentation of patient history, physical exam, assessment, and treatment plan 5. Recognize, understand, and respond appropriately to spoken or nonverbal communication of distress or discomfort 6. Understand typed and hand written lecture and laboratory handouts and electronic communications

Motor	Possess equilibrium and coordination of gross and fine muscular movements	<ol style="list-style-type: none"> 1. Possess sufficient strength and mobility to provide general care and emergency treatment to patients including CPR, administration of intravenous medication, the application of pressure to stop bleeding, the opening of obstructed airways, the suturing of simple wounds, and the performance of simple obstetrical maneuvers 2. Coordinate fine movement of fingertips, palms, and wrists 3. Manipulate writing instruments and write legibly, completing SOAP* notes, documenting in patient charts, and writing prescriptions * Subjective, Objective, Assessment, Plan 4. Stand with limited opportunity for gross movement for a minimum of 2 hours at a time, as necessary for particular medical procedures, such as performance of obstetrical delivery, assistance of surgical delivery, and assistance of surgical procedure 5. Use a computer keyboard and mouse
	Possess sufficient visual-motor coordination permitting delicate manipulations of specimens, instruments, and equipment	<ol style="list-style-type: none"> 1. Participate in laboratory exercises using microscopes, microbiological cultures and dissection instruments 2. Dissect arteries, vessels, and nerves of the brachial plexus 3. Manipulate laboratory materials including reagents and pipettes 4. Suture simple wounds 5. Obtain culture specimens including cerebrospinal fluid as part of a lumbar puncture procedure 6. Perform joint injections

Sensory	Possess accurate sense of touch and temperature discrimination	<ol style="list-style-type: none"> 1. Palpate the musculoskeletal system 2. Perform history and physical examination procedures specific to an individual 3. Perform a bimanual pelvic exam and palpate for ovarian disease 4. Participate in laboratory exercises accurately using and adjusting microscopes, glass slides, inoculating loops, pipettes, microbiological cultures, and reagents 5. Palpate distances in depth, elevation, and width of body structures within 2 mm of difference 6. Perform intravenous insertion and venipuncture on both basic and difficult models and patients 7. Palpate texture differences, hydration states, fine muscle tension differences, changes in moisture, and temperature
	Functional use of hearing	<ol style="list-style-type: none"> 1. The ability to use a stethoscope, recognizing the sound of patient conditions accurately such as a Grade 5 systolic murmur 2. Understand laboratory experience and classroom demonstration with minimal instruction 3. Understand a speaker in a darkened room
	Functional use of vision	<ol style="list-style-type: none"> 1. Recognize structures and patient conditions accurately 2. Interpret laboratory and classroom demonstrations accurately with minimal instruction
Strength and Mobility	Upright posture, endurance, strength, flexibility, stability and mobility adequate to safely guide, enhance and resist movement of another person, and to perform physical exams	Maintain equilibrium and control movement of self and of a patient in and changing between sitting, standing, prone, lateral recumbent, and supine positions while performing physical diagnosis and treatment maneuvers

	Sufficient equilibrium, upright posture, mobility and endurance to attend and participate in lectures, examinations and laboratory exercises and patient contact for extended periods of time	<ol style="list-style-type: none"> 1. Tolerate the sitting position long enough to hear a lecture, typically 50 minutes 2. Tolerate the sitting position long enough to take a written examination, 45 minutes to 3 hours 3. Visit patients in clinic and hospital settings including Emergency Room rounds 4. Assist in transfer and treatment of persons weighing 90 kg or more 5. Participate in laboratory exercises lasting as long as 3 hours, requiring frequent movement around the room 6. Attend mandatory classroom events for as long as 2 hours moving, sitting, or standing within the room as necessary to participate in problem-based learning groups
Intellectual, Conceptual, Integrative, and Quantitative	Apply knowledge, skills and values learned from course work and life experiences to new situations	<ol style="list-style-type: none"> 1. Perform a history and physical, then develop an appropriate differential diagnosis, assessment, and treatment plan 2. Assess and evaluate cases presented in class and on examinations 3. Interpret x-ray and diagnostic imaging studies
	Visualize and recall three dimensional relationships	
	To receive, decode, interpret, recall, reproduce, and apply information in the cognitive, psychomotor, and affective domains of learning to perceive relationships, solve problems, evaluate work, gauge progress, and demonstrate understanding of course material	<ol style="list-style-type: none"> 1. Perform an evaluation of patient including analysis of physiological, biomechanical, behavioral, and environmental factors in a timely manner, consistent with acceptable clinical norms 2. Comprehend oral and written presentations of material and communicate that understanding upon examination in a timely manner, occasionally demonstrating a grasp of the information within the same class period as presented
	Rapidly process multifunctional data and sensory input requiring cognitive recall and motor skills and initiate critical actions	<ol style="list-style-type: none"> 1. Successfully complete objective (multiple choice, matching, case study) biomedical science exams designed to assess whether students can apply knowledge learned to new situations 2. Successfully perform problem solving exercises in the laboratory including the identification of unknowns 3. Interact in group discussions and present and explain answers to worksheets 4. Evaluation of emergency situations including apnea, code management, bleeding, and severe trauma, requiring rapid responses such as intubation and medication

Behavioral, Professional, and Social	Function efficiently in the face of uncertainties inherent in the clinical problems of patients Demonstrate compassion, Integrity, and concern for others	<ol style="list-style-type: none"> 1. Recognize emergency situations and take appropriate actions 2. Study with, supervise, and treat people with diverse values, ethnic backgrounds, social mores, economic stability, and personal preferences
	Manage priorities successfully, including competing demands and multiple tasks under time constraints	<ol style="list-style-type: none"> 1. Complete exams and other time-sensitive assessments and requirements, including patient care, as scheduled 2. Attend all classes, laboratory sessions, and educational programs 3. Maintain passing grades and performance evaluations in all academic endeavors 4. Promptly complete all class work and lab responsibilities 5. Promptly complete all responsibilities attendant to the diagnosis and care of patients
	<p>Possess the emotional health required for full use of intellectual abilities</p> <p>Exhibit appropriate behavior, Judgment, and ethical standards</p> <p>Develop mature and cooperative relationships with all members of the health care team including patients, peers, and faculty and staff members</p> <p>Demonstrate the compassion, integrity, and ability to work effectively with patients and colleagues</p>	<ol style="list-style-type: none"> 1. Active participation with and contribution to didactic and medical learning situations including laboratory team and problem based learning exercises 2. Interact through appropriate electronic, telephone, written, and oral communication with faculty, classmates, and all members of the health care team 3. Project an image of professionalism, including appearance, dress and confidence 4. Work independently on all projects and examinations assessed individually 5. Maintain alertness and concentration during preceptor and patient encounters and during each class room period (about 50 minutes) 6. Interact professionally, ethically, and confidentially with patients 7. Observe instructor, peer, patient, and health care team behavioral and environmental factors 8. Control temper and never perpetrate harassment
	Adapt successfully to changing environments	<ol style="list-style-type: none"> 1. Maintain attention, actively participate, and meaningfully contribute to dialog and practical applications in the classroom, small group exercises, laboratory activities, and in patient care 2. Plan appropriately for various possible patient care outcomes

	<p>Possess constructive, positive, and mature interpersonal skills, interest, and motivation</p>	<ol style="list-style-type: none"> 1. Accept criticism and respond with appropriate modification of behavior 2. Timely and adequately respond to personal or academic struggles; seek assistance and practice planning; and avoid procrastination
	<p>Touch and be touched, requiring exposure of nonsexual body parts for examination and application of treatment modalities, regardless of age, gender, nationality, religion, race, or body size</p>	<ol style="list-style-type: none"> 1. Permit for self and demonstrate on others head, eyes, ears, nose, and throat (HEENT) examination; abdominal; respiratory; musculoskeletal; cardiac; and neurologic examinations 2. Demonstrate on others breast, pelvic, prostate, and male genitalia examinations