Medical Knowledge for Practice:

*Demonstrate knowledge of established and evolving biomedical, clinical, epidemiological and social-behavioral sciences, as well as the application of this knowledge to patient care*

Graduate will be able to:

1. Establish and maintain knowledge necessary for the preventive care, diagnosis, treatment and management of common medical conditions. Students must demonstrate knowledge of:
   a. Relevant biomedical, socioeconomic and behavioral principles underlying health and common medical conditions
   b. Human development throughout the lifespan and its impact on health and disease
   c. Principles of preventive, acute, chronic, rehabilitative, and end-of-life care necessary for provision of medical care across the lifespan
   d. Medical ethics and human values and their implications for provision of safe, equitable and patient-centered care
   e. Principles of pharmacology and how to evaluate options for safe, rational and optimal application of drug therapy
   f. Principles of biostatistics, and epidemiology as used to evaluate and interpret disease risk, etiology, diagnosis, prognosis, treatment strategies, resources, disease prevention and health promotion in patients and populations
   g. Common clinical tests, laboratory examinations, diagnostic imaging and diagnostic and therapeutic medical procedures as defined in the required curriculum

2. Demonstrate curiosity, objectivity, and use of scientific reasoning in the acquisition of knowledge and its application to patient care. Students must demonstrate the ability to reason deductively in solving clinical problems

Patient Care:

*Provide patient-centered care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health and wellness*

Graduate will be able to:

1. Gather essential and accurate information about patients and their conditions through history taking, physical examination and review of the medical records
2. Apply established and emerging biomedical knowledge to the care of patients
3. Diagnose common clinical problems. Students must demonstrate the ability to:
   a. Apply a systematic approach to generating a comprehensive prioritized differential diagnosis and problem list
   b. Explain choice of diagnosis and reasoning for considering and rejecting alternate diagnoses
4. Select, justify and interpret clinical tests and imaging. Students must demonstrate the ability to:
a. Select appropriate clinical tests and diagnostic imaging protocols for common clinical conditions based on the patient’s clinical presentation and current scientific evidence
b. Recognize common and critical findings in basic laboratory data, imaging studies and other commonly ordered tests

5. Select and apply basic preventive, curative, or palliative therapeutic strategies for the preliminary management of clinical conditions. Students must demonstrate the ability to:
   a. Construct appropriate preliminary management strategies (preventive, diagnostic and therapeutic) for patients with common conditions
   b. Recognize patients with serious or immediately life threatening conditions regardless of etiology, request immediate assistance, and participate when appropriate in instituting appropriate initial therapy
   c. Identify when a referral for a patient with common clinical conditions is appropriate

6. Perform basic medical procedures required in the core curriculum with assistance or direct supervision

7. Participate in and contribute to the work of the healthcare team around continuity of care during transitions between providers or settings

8. Organize and prioritize responsibilities to provide care that is safe, effective and efficient

Practice-Based Learning and Improvement:

Demonstrate the ability to investigate and evaluate one’s care of patients, to appraise and assimilate scientific evidence, and to continuously improve patient care based on constant self-evaluation and life-long learning

Graduate will be able to:

1. Locate, evaluate, and assimilate scientific evidence related to patients’ health care problems:
   a. Identify clinical questions as they arise in patient care activities
   b. Access medical information resources to answer questions
      i. Effectively identify and search medical information resources to obtain evidence-based information from primary and summary sources
      ii. Critically appraise medical, scientific and digital literature and resources
      iii. Apply knowledge of study designs, statistical methods and principles of bias to read and interpret clinical studies and other information to make evidence-based decisions
      iv. Determine if evidence can be generalizable to individual patients

2. Develop the foundational knowledge and skills necessary to participate meaningfully in quality improvement during postgraduate training and subsequent independent practice:
a. Explain the core principles of quality improvement
b. Apply basic principles of quality improvement within the healthcare setting

Interpersonal and Communication Skills:

Demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and health professionals

Graduate will be able to:

1. Develop rapport with patients and families
2. Utilize effective techniques to obtain relevant and sensitive historical information
3. Recognize the importance of verbal and non-verbal cues
4. Demonstrate collaborative decision making skills with patients, families and interprofessional team members
5. Explain diagnosis and treatment plans to patients and families for selected common conditions in a way that they can understand
6. Deliver difficult news including information regarding diagnosis and prognosis in a respectful manner
7. Document written communications in the health record in an organized, accurate, complete and concise manner
8. Deliver oral presentations in the health care setting that are organized, accurate, complete, and concise
9. Communicate effectively with other physicians and health care providers
10. Effectively utilize the electronic health record to obtain & document patient information
11. Recognize when to engage an interpreter

Professionalism:

Demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles

Graduates will be able to:

1. Demonstrate duty and accountability to patients, families, professional colleagues, and society
2. Provide constructive feedback and evaluation in order to provide high quality care and promote educational excellence
3. Recognize and appropriately respond to others’ unprofessional behaviors in the educational and healthcare setting (this includes reporting concerns as needed)
CU Competencies for the Graduating Medical Student
Final for Approval

4. Demonstrate basic professional responsibility including but not limited to, appropriate dress, grooming, and behavior considered appropriate to the setting
5. Document and report clinical and administrative information truthfully
6. Respond promptly and appropriately to responsibilities including timely reporting for duty and ensuring efficient completion of all required tasks
7. Accept personal errors and honestly acknowledge them
8. Behave ethically, with integrity and honesty
9. Maintain appropriate patient confidentiality
10. Recognize obvious conflicts of interest
11. Demonstrate behaviors that convey compassion, respect, empathy, caring, genuine interest and tolerance
12. Uphold the primacy of patient needs and welfare
13. Recognize the impact and influence of personal biases and cultural differences on health and health behaviors
14. Demonstrate humility, sensitivity and openness, particularly in culturally complex situations

Systems-Based Practice

*Demonstrate an awareness of and responsiveness to the larger context and system of health care, as well as the ability to call effectively on other resources in the system to provide optimal health care*

Graduate will be able to:

1. Work *effectively* in various health care delivery settings including inpatient and outpatient
2. Incorporate considerations of cost awareness and risk-benefit analysis in patient
3. Recognize the barriers and threats to quality patient care
4. Demonstrate the ability to identify system errors and contribute to potential system solutions

**New Competencies:** From Englander et al. Toward a Common Taxonomy of Competency Domains for the Health Professions and Competencies for Physicians. Acad Med, Vol 88. No. 8 August 2013

**Interprofessional Collaboration:**

*Demonstrate the ability to engage in an interprofessional team in a manner that optimizes safe, effective patient- and population-centered care*
Graduates will be able to:

1. Work with other health professionals to establish and maintain a climate of mutual respect, dignity, ethical integrity, and trust
2. Recognize the roles of various members of the interprofessional healthcare team and the scope of their practice
3. Participate effectively in interprofessional teams

**Personal and Professional Development:**
*Demonstrate the qualities required to sustain lifelong personal and professional growth*

Graduates will be able to:

1. Identify strengths, biases and limits in one’s knowledge and performance, monitor self, and demonstrate self-directed learning in daily practice by:
   
   a. Receive and respond productively to feedback from faculty, residents, interprofessional team members and peers
   b. With assistance, critically reflect on one’s own performance to identify personal errors, strengths and challenges and develop plans for learning and improvement
   c. Recognize need for help and ask appropriately for assistance

2. Balance professional and personal priorities to meet the needs of patients and society while ensuring personal health and sustainable practice

   a. Recognize and address personal, psychological, and physical limitations that may affect professional performance

   b. Deliver patient care as a functional physician