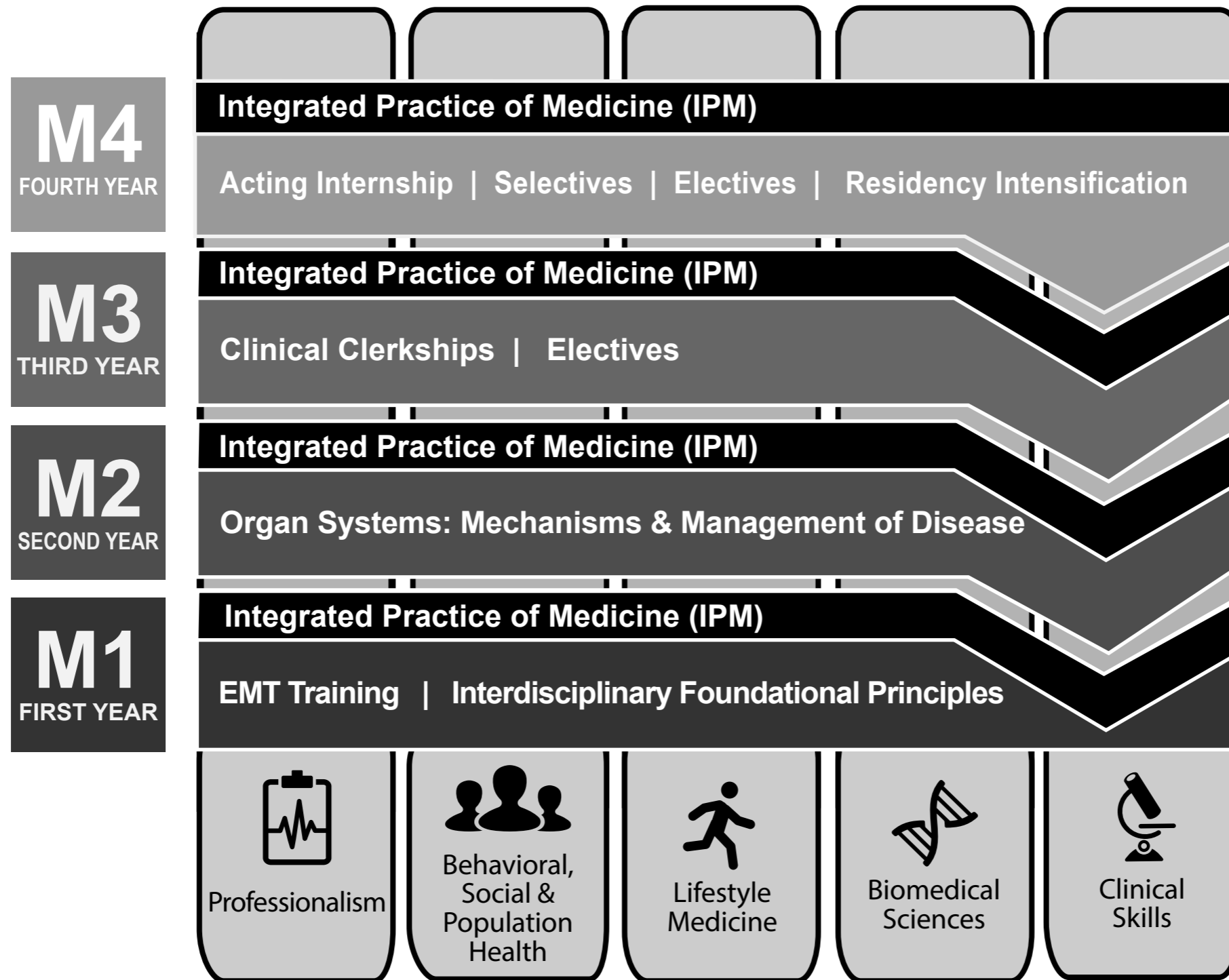


Supplemental Digital Content

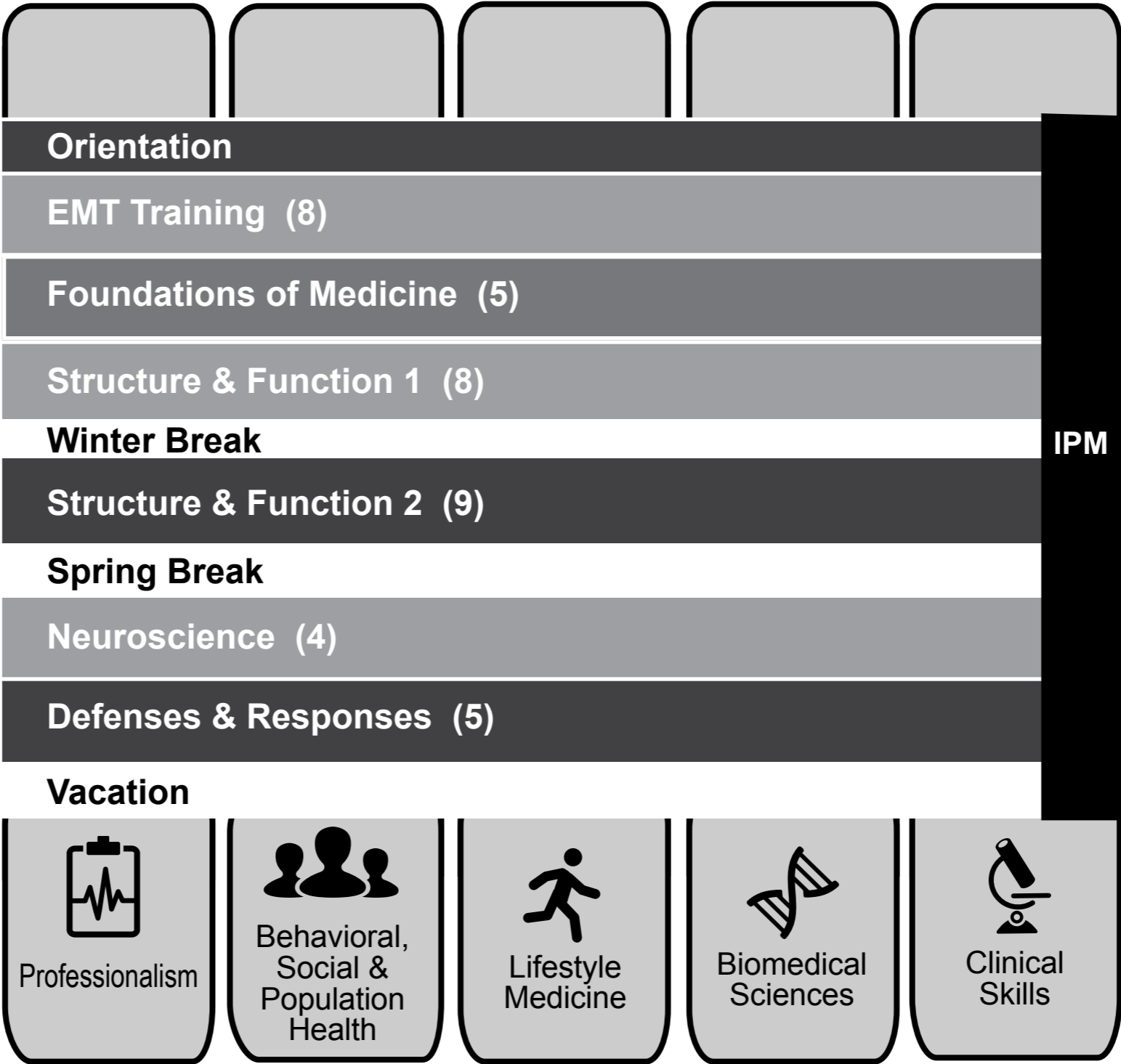
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Supplemental Digital Appendix 1

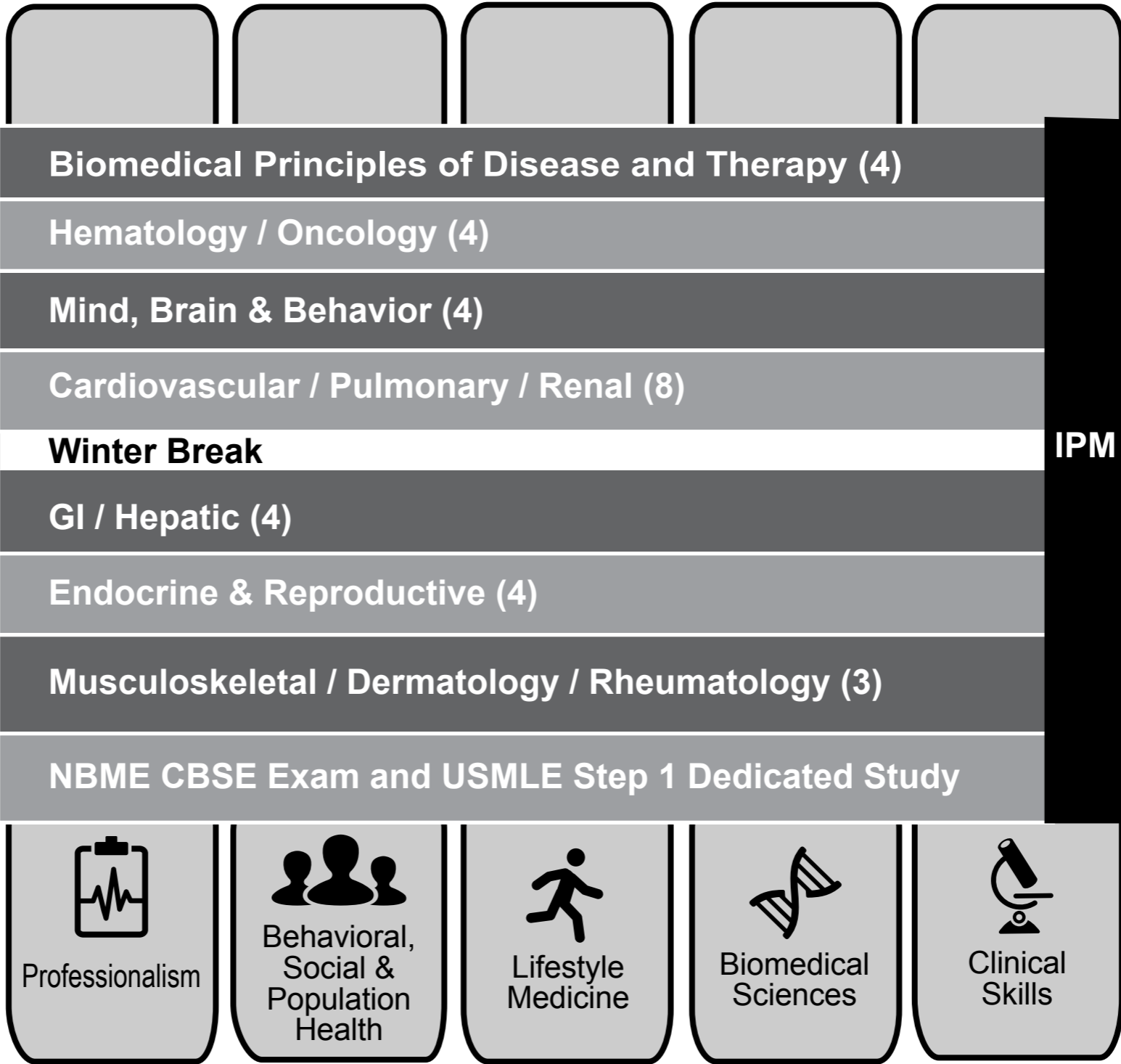
Curriculum Overview



M1
FIRST YEAR

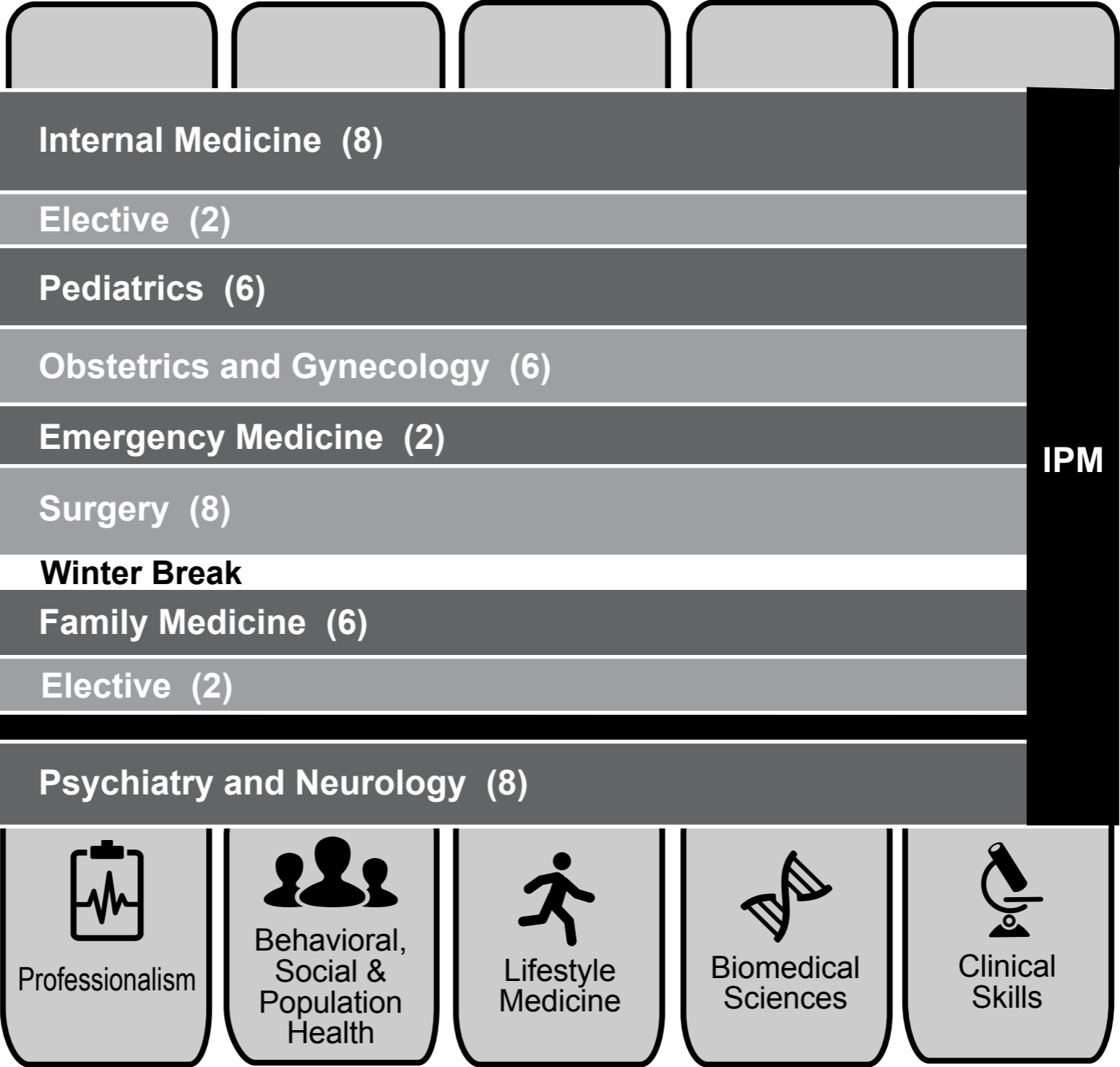


M2
SECOND YEAR



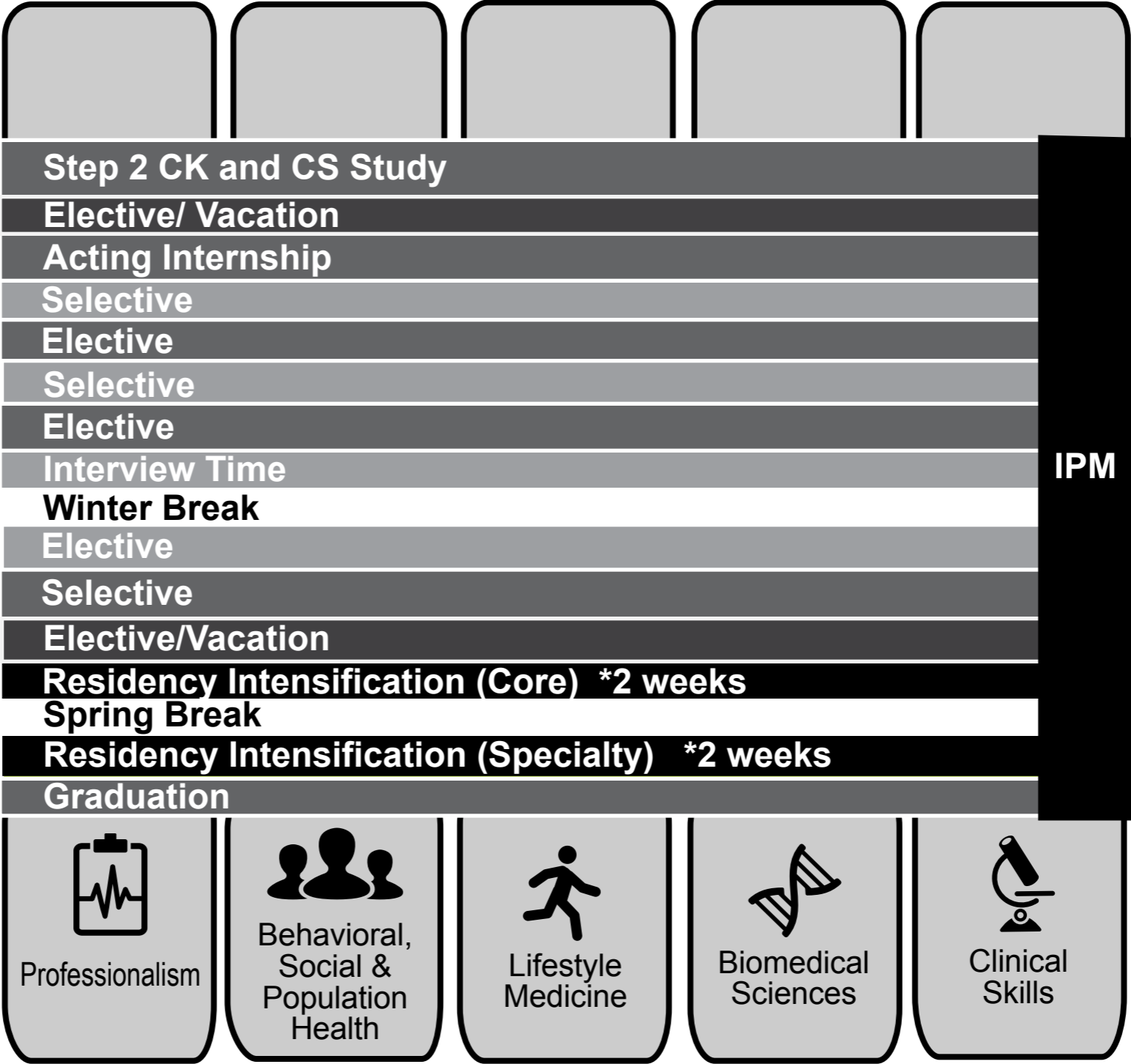
M3
THIRD YEAR

Example Schedule
(Number of weeks)



M4
FOURTH YEAR

Example Schedule



Supplemental Digital Appendix 2

Program Objectives and Assessment Methods

Education Program Objective(s)	Assessment Methods
Demonstrate the ability to perform routine technical procedures.	<ul style="list-style-type: none"> -Exam – Nationally Normed/Standardized Subject -Exam - Institutionally Developed, Clinical Performance -Clinical Performance Rating/Checklist -Narrative Assessment
Gather essential and accurate information about patients and their condition through history-taking, physical examination, and the use of laboratory data, imaging, and other tests	<ul style="list-style-type: none"> - Exam - Institutionally Developed, Written/ Computer-based Exam – Nationally Normed/Standardized Subject -Exam - Institutionally Developed, Clinical Performance -Clinical Performance Rating/Checklist -Narrative Assessment
Organize and prioritize responsibilities to provide care that is safe, effective and efficient.	<ul style="list-style-type: none"> - Exam - Institutionally Developed, Laboratory Practical (Lab) Exam – Nationally Normed/Standardized Subject -Exam - Institutionally Developed, Clinical Performance -Clinical Performance Rating/Checklist -Narrative Assessment
Interpret laboratory data, imaging studies, and other tests required for the area of practice	<ul style="list-style-type: none"> - Exam - Institutionally Developed, Laboratory Practical (Lab) Exam – Nationally Normed/Standardized Subject -Exam - Institutionally Developed, Oral -Clinical Performance Rating/Checklist -Narrative Assessment
Make informed decisions about diagnostic and therapeutic interventions based on patient information and preferences, up-to-date scientific evidence, and clinical judgment	<ul style="list-style-type: none"> - Exam - Institutionally Developed, Written/ Computer-based -Exam - Institutionally Developed, Clinical Performance -Exam – Nationally Normed/Standardized Subject
Develop and carry out patient management plans	<ul style="list-style-type: none"> - Exam - Institutionally Developed, Written/ Computer-based -Exam - Institutionally Developed, Clinical Performance -Exam – Nationally Normed/Standardized Subject -Narrative Assessment

Counsel and educate patients and their families to empower them to participate in their care and enable shared decision making	<ul style="list-style-type: none"> - Exam - Institutionally Developed, Written/ Computer-based -Exam - Institutionally Developed, Clinical Performance -Exam – Nationally Normed/Standardized Subject -Narrative Assessment
Provide appropriate referral of patients including ensuring continuity of care throughout transitions between providers or settings and following up on patient progress and outcomes	<ul style="list-style-type: none"> - Exam - Institutionally Developed, Written/ Computer-based -Exam - Institutionally Developed, Clinical Performance -Exam – Nationally Normed/Standardized Subject -Oral Presentation
Provide health care services to patients, families, and communities aimed at preventing health problems or maintaining health	<ul style="list-style-type: none"> - Exam - Institutionally Developed, Written/ Computer-based -Exam - Institutionally Developed, Clinical Performance -Exam – Nationally Normed/Standardized Subject -Narrative Assessment
Demonstrate knowledge of the normal structure and function of the body and of each of its major organ systems across the life span.	<ul style="list-style-type: none"> - Exam - Institutionally Developed, Written/ Computer-based -Exam - Institutionally Developed, Clinical Performance -Exam – Nationally Normed/Standardized Subject -- Exam - Institutionally Developed, Laboratory Practical (Lab)
Demonstrate knowledge of the molecular, biochemical, and cellular mechanisms that are important in maintaining the body’s homeostasis.	<ul style="list-style-type: none"> - Exam - Institutionally Developed, Written/ Computer-based -Exam - Institutionally Developed, Clinical Performance -Exam – Nationally Normed/Standardized Subject - Exam - Institutionally Developed, Laboratory Practical (Lab)
Demonstrate knowledge of the various causes (genetic, developmental, metabolic, toxic, microbiologic, autoimmune, neoplastic, degenerative, and traumatic) of maladies and the ways in which they affect the body (pathogenesis).	<ul style="list-style-type: none"> - Exam - Institutionally Developed, Written/ Computer-based -Exam - Institutionally Developed, Clinical Performance -Exam – Nationally Normed/Standardized Subject -Narrative Assessment - Exam - Institutionally Developed, Laboratory Practical (Lab) - Participation -Research Project Assessment

<p>Demonstrate knowledge of the altered structure and function (pathology and pathophysiology) of the body and its major organ systems that are seen in various diseases and conditions.</p>	<ul style="list-style-type: none"> - Exam - Institutionally Developed, Written/ Computer-based -Exam - Institutionally Developed, Clinical Performance -Exam – Nationally Normed/Standardized Subject - Exam - Institutionally Developed, Laboratory Practical (Lab) -Research Project Assessment
<p>Demonstrate an investigatory and analytic approach to clinical situations</p>	<ul style="list-style-type: none"> - Exam - Institutionally Developed, Written/ Computer-based -Exam - Institutionally Developed, Clinical Performance -Exam – Nationally Normed/Standardized Subject -Narrative Assessment -Oral Presentation -Research Project Assessment
<p>Apply established and emerging biophysical scientific principles fundamental to health care for patients and populations</p>	<ul style="list-style-type: none"> - Exam - Institutionally Developed, Written/ Computer-based -Exam - Institutionally Developed, Clinical Performance -Exam – Nationally Normed/Standardized Subject -Narrative Assessment -Research Project Assessment
<p>Apply established and emerging principles of clinical sciences to diagnostic and therapeutic decision making, clinical problem solving, and other aspects of evidence-based health care</p>	<ul style="list-style-type: none"> - Exam - Institutionally Developed, Written/ Computer-based -Exam - Institutionally Developed, Clinical Performance -Exam – Nationally Normed/Standardized Subject -Narrative Assessment -Research Project Assessment -Narrative Assessment - Exam - Institutionally Developed, Laboratory Practical (Lab)
<p>Apply principles of epidemiological sciences to the identification of health problems, risk factors, treatment strategies, resources, and disease prevention/health promotion efforts for patients and populations</p>	<ul style="list-style-type: none"> - Exam - Institutionally Developed, Written/ Computer-based -Exam - Institutionally Developed, Clinical Performance -Exam – Nationally Normed/Standardized Subject -Narrative Assessment - Research or Project Assessment

Apply principles of social-behavioral sciences to provision of patient care, including assessment of the impact of psychosocial-cultural influences on health, disease, care-seeking, care-compliance, and barriers to and attitudes toward care	<ul style="list-style-type: none"> - Exam - Institutionally Developed, Written/ Computer-based -Exam - Institutionally Developed, Clinical Performance -Exam – Nationally Normed/Standardized Subject -Narrative Assessment - Participation -Research or Project Assessment
Identify strengths, deficiencies, and limits in one’s knowledge and expertise	<ul style="list-style-type: none"> -Exam - Institutionally Developed, Clinical Performance -Clinical Performance Rating/Checklist -Exam – Nationally Normed/Standardized Subject -Narrative Assessment
Set learning and improvement goals	<ul style="list-style-type: none"> -Exam - Institutionally Developed, Clinical Performance -Clinical Performance Rating/Checklist -Exam – Nationally Normed/Standardized Subject
Identify and perform learning activities that address one’s gaps in knowledge, skills, or attitudes	<ul style="list-style-type: none"> -Exam - Institutionally Developed, Clinical Performance -Clinical Performance Rating/Checklist -Exam – Nationally Normed/Standardized Subject
Incorporate feedback into daily practice	<ul style="list-style-type: none"> -Clinical Performance Rating/Checklist
Locate, appraise, and assimilate evidence from scientific studies related to patients’ health problems	<ul style="list-style-type: none"> -Exam - Institutionally Developed, Clinical Performance -Clinical Performance Rating/Checklist -Exam – Nationally Normed/Standardized Subject -Narrative Assessment
Use information technology to optimize learning	<ul style="list-style-type: none"> -Exam - Institutionally Developed, Clinical Performance -Clinical Performance Rating/Checklist -Exam – Nationally Normed/Standardized Subject -Narrative Assessment
Participate in the education of patients, families, students, trainees, peers, and other health professionals	<ul style="list-style-type: none"> - Exam - Institutionally Developed, Written/ Computer-based -Exam - Institutionally Developed, Clinical Performance -Clinical Performance Rating/Checklist -Exam – Nationally Normed/Standardized Subject -Narrative Assessment

Obtain and utilize information about individual patients, populations of patients, or communities from which patients are drawn to improve care	<ul style="list-style-type: none"> -Exam - Institutionally Developed, Written/ Computer-based -Exam - Institutionally Developed, Clinical Performance -Clinical Performance Rating/Checklist -Exam – Nationally Normed/Standardized Subject -Narrative Assessment -Participation
Continually identify, analyze, and implement new knowledge, guidelines, standards, technologies, products, or services that have been demonstrated to improve outcomes	<ul style="list-style-type: none"> -Exam - Institutionally Developed, Clinical Performance -Clinical Performance Rating/Checklist -Exam – Nationally Normed/Standardized Subject -Narrative Assessment
Communicate effectively with patients, families, and the public, as appropriate, across a broad range of socioeconomic and cultural backgrounds	<ul style="list-style-type: none"> -Exam - Institutionally Developed, Clinical Performance -Clinical Performance Rating/Checklist -Exam – Nationally Normed/Standardized Subject -Narrative Assessment -Participation
Communicate effectively with colleagues within one’s profession or specialty, other health professionals, and health-related agencies	<ul style="list-style-type: none"> -Exam - Institutionally Developed, Written/ Computer-based -Exam - Institutionally Developed, Clinical Performance -Clinical Performance Rating/Checklist -Narrative Assessment - Participation
Work effectively with others as a member or leader of a health care team or other professional group	<ul style="list-style-type: none"> -Exam - Institutionally Developed, Written/ Computer-based -Clinical Performance Rating/Checklist -Exam - Institutionally Developed, Oral -Narrative Assessment - Participation
Maintain comprehensive, timely, and legible medical documentation	<ul style="list-style-type: none"> -Clinical Performance Rating/Checklist
Demonstrate sensitivity, honesty, and compassion in difficult conversations (e.g. about issues such as death, end-of-life issues, adverse events, bad news, disclosure of errors, and other sensitive topics)	<ul style="list-style-type: none"> -Clinical Performance Rating/Checklist -Exam - Institutionally Developed, Oral -Exam – Nationally Normed/Standardized Subject -Narrative Assessment -Peer Assessment
Demonstrate insight and understanding about emotions and human responses to emotions that allow one to develop and manage interpersonal interactions	<ul style="list-style-type: none"> -Clinical Performance Rating/Checklist -Exam - Institutionally Developed, Clinical Performance

Demonstrate honesty, integrity, compassion and respect in all interactions with others	-Clinical Performance Rating/Checklist -Exam - Institutionally Developed, Clinical Performance -Oral Presentation
Demonstrate responsiveness to patient needs that supersedes self-interest	-Clinical Performance Rating/Checklist -Exam - Institutionally Developed, Clinical Performance - Narrative Assessment
Demonstrate respect for patient privacy and autonomy	-Clinical Performance Rating/Checklist -Exam - Institutionally Developed, Clinical Performance -Narrative Assessment
Demonstrate accountability to patients, society, and the profession	-Clinical Performance Rating/Checklist -Exam - Institutionally Developed, Clinical Performance - Narrative Assessment -Peer Assessment
Demonstrate sensitivity and responsiveness to a diverse patient population, including but not limited to diversity in gender, age, culture, race, religion, disabilities, and sexual orientation	Summative Exam -Clinical Performance Rating/Checklist -Exam - Institutionally Developed, Clinical Performance - Narrative Assessment - Participation
Demonstrate a commitment to ethical principles pertaining to provision or withholding of care, confidentiality, informed consent, and business practices, including compliance with relevant laws, policies, and regulations	-Clinical Performance Rating/Checklist
Coordinate patient care within the health care system	-Clinical Performance Rating/Checklist -Exam - Institutionally Developed, Clinical Performance -Exam – Nationally Normed/Standardized Subject -Narrative Assessment - Participation
Incorporate considerations of cost awareness and risk-benefit analysis in patient and/or population-based care	Summative Exam -Clinical Performance Rating/Checklist -Exam - Institutionally Developed, Clinical Performance -Exam – Nationally Normed/Standardized Subject - Exam - Institutionally Developed, Laboratory Practical (Lab) - Narrative Assessment - Participation

Advocate for quality patient care and optimal patient care systems for all patients	-Clinical Performance Rating/Checklist -Exam - Institutionally Developed, Clinical Performance -Exam – Nationally Normed/Standardized Subject
Participate in identifying system errors and implementing potential systems solutions to promote patient safety and quality outcomes	-Clinical Performance Rating/Checklist -Narrative Assessment -Research or Project Assessment -Narrative Assessment - Participation
Work with other health professionals to establish and maintain a climate of mutual respect, dignity, diversity, ethical integrity, and trust	-Clinical Performance Rating/Checklist -Exam - Institutionally Developed, Clinical Performance - Narrative Assessment -Peer Assessment
Use the knowledge of one’s own role and those of other professions to appropriately assess and address the health care needs of the patients and populations served	-Clinical Performance Rating/Checklist
Communicate with other health professionals in a responsive and responsible manner that supports the maintenance of health and the treatment of disease in individual patients and populations	-Clinical Performance Rating/Checklist -Exam - Institutionally Developed, Oral - Narrative Assessment -Participation
Participate in different team roles to establish, develop, and continuously enhance interprofessional teams to provide patient- and population-centered care that is safe, timely, efficient, effective, and equitable	-Clinical Performance Rating/Checklist - Narrative Assessment -Research or Project Assessment -Narrative Assessment - Participation
Develop the ability to use self-awareness of knowledge, skills, and emotional limitations to engage in appropriate help-seeking behaviors	-Clinical Performance Rating/Checklist
Demonstrate healthy coping mechanisms to respond to stress	-Clinical Performance Rating/Checklist
Manage conflict between personal and professional responsibilities	-Clinical Performance Rating/Checklist
Practice flexibility and maturity in adjusting to change with the capacity to alter behavior	-Clinical Performance Rating/Checklist
Demonstrate trustworthiness that makes colleagues feel secure when one is responsible for the care of patients	-Clinical Performance Rating/Checklist -Exam - Institutionally Developed, Clinical Performance -Exam – Nationally Normed/Standardized Subject -Narrative Assessment - Participation

<p>Provide leadership skills that enhance team functioning, the learning environment, and/or the health care delivery system</p>	<ul style="list-style-type: none"> -Clinical Performance Rating/Checklist -Exam - Institutionally Developed, Oral -Exam – Nationally Normed/Standardized Subject -Narrative Assessment - Participation
<p>Demonstrate self-confidence that puts patients, families, and members of the health care team at ease</p>	<ul style="list-style-type: none"> -Clinical Performance Rating/Checklist -Exam - Institutionally Developed, Clinical Performance -Exam – Nationally Normed/Standardized Subject -Narrative Assessment - Participation
<p>Recognize that ambiguity is part of clinical health care and respond by using appropriate resources in dealing with uncertainty</p>	<ul style="list-style-type: none"> -Clinical Performance Rating/Checklist