VINUNIVERSITY

CURRICULUM FRAMEWORK

MEDICAL DOCTOR PROGRAM

PROGRAM CODE: [7720101]

Applicable for cohort 2024 - 2030 from Academic Year 2025 - 2026

(Decision 452/2025/QĐ-VUNI, Dated: 11/08/2025 by the Provost of VinUniversity)

This Curriculum Framework has been reviewed and validated by
The University of Pennsylvania

Table of Contents

1. VINUNI GENERIC GRADUATE ATTRIBUTES

Generic graduate attributes are a set of skills, attributes, and values that all learners should achieve regardless of discipline or field of study; should be measurable and broad. The five Generic Graduate Attributes for VinUni, framed around the EXCEL Model, are listed as below:

- E: Empathy – The ability to understand what someone else might be thinking or feeling, without judgment, and the desire to help to make a better world.
- X: Exceptional Ability – Exceptional capabilities and competencies that are proven determinants of future success.
- C: Creativity – The ability to perceive the world in new ways, to find hidden patterns, to make connections between seemingly unrelated phenomena, and to generate solutions and turning imaginative, new ideas into reality.
- E: Entrepreneurial Spirit – The way of thinking that enables people to seek challenges, be resilient in overcoming them, make informed and quick decisions, accept responsibility, adapt and persist in the face of adversity, and create value and impact in the society.
- L: Leadership Mindset – The ability to influence and motivate people to maximize their efforts towards achieving a common goal.

2. PROGRAM OVERVIEW

2.1. Program Description

Name of the degree	Doctor of Medicine
Name of the program	Medical Doctor Program
Program Code	7720101
Length of Program	6 years
Mode of Delivery	Full-time
Language of Delivery	English
Total credits	228 credits
Home College	College of Health Sciences

2.2. Program Mission and Vision

Mission: Our mission is to develop excellent, professional, dedicated, compassionate physicians, committed to lifelong learning, innovation, scholarship, and leadership to address society's diverse and evolving healthcare needs to the highest standard.

Vision: To be an excellent internationally recognized medical program through quality education, transformative research, and improving population health and well-being.

2.3. Professional Competency Standards

Competency standards that help the school measure the values, attributes, skills, and knowledge of our medical students have been developed and are spread out over 6 major domains. Our curriculum will ensure that students achieve competencies of the six domains as follows:

- **DOMAIN 1: COMPETENCE IN PROFESSIONAL PRACTICE**
  General practitioners shall have a professional practicing manner according to moral and legal standards and shall respect the variety of culture.
- **DOMAIN 2: COMPETENCE IN APPLICATION OF MEDICAL KNOWLEDGE**
  General practitioners shall have ability to apply the knowledge about basic science and basic medicine, pathology, and social and medical studies as the rationale for identifying, explaining, and resolving the problems and transmit to individuals, groups of individuals and community about health conditions.
- **DOMAIN 3: COMPETENCE IN MEDICAL CARE**
  General practitioners shall have the ability to resolve a normal demand for medical care safely, promptly, economically, and effectively depending on scientific evidence and conform to the real conditions.
- **DOMAIN 4: COMPETENCE IN COMMUNICATION AND COOPERATION**
  General practitioners shall have the ability to communicate effectively with patients and their family, their colleagues, and the community.
- **DOMAIN 5: PRACTICE-BASED LEARNING AND IMPROVEMENT**
  Requires General Practitioners demonstrate their care of patients, locate, and appraise scientific evidence, and to continuously improve patient care based on constant self-evaluation and lifelong learning.
- **DOMAIN 6: SYSTEMS-BASED PRACTICE**
  Requires General practitioners to 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.

2.4. Program Educational Objectives

The Medical Doctor Program is aimed to produce graduates who are able to:

1. Practice medicine with compliance to the national ethical standards and legal requirements, demonstrating proficiency in clinical skills and knowledge to provide safe, effective, and compassionate patient care.
2. Engage in continuous professional development and reflective practice, collaborating effectively within interprofessional teams to improve patient outcomes and healthcare systems.
3. Exhibit leadership and an entrepreneurial mindset, utilizing evidence-based practices and state-of-the-art technology to drive innovation and improvements in healthcare delivery both locally and globally.

2.5. Program Learning Outcomes (PLOs)

At the end of the program, a student is able to:

PROGRAM LEARNING OUTCOMES (PLOs)	PERFORMANCE INDICATORS (PIs)
I. KNOWLEDGE	
I.1. General Knowledge	
PLO 1: Apply foundational knowledge of politics, law, arts, humanities, sustainability, cross-cultural understanding, and globalization to personal and professional development as well as to innovation.	**PI 1.1: Apply** foundational knowledge of politics, law and regulations to personal and professional development.
	PI 1.2: Apply foundational knowledge of sustainability, cross-cultures, and globalization towards innovation in emerging local and global challenges.
	PI 1.3: Apply foundational knowledge of the arts and humanities to personal and professional development.
I.2. Professional Knowledge	
PLO 2: Systematize knowledge in biomedical, clinical, epidemiological and social-behavioral sciences into clinical practice and research.	**PI 2.1: Appraise** knowledge of the biomedical sciences in clinical practice decision-making.
	PI 2.2: Recommend appropriate steps in clinical practice decision-making using evidence-based approaches.
	PI 2.3: Appraise epidemiological principles in clinical practice and research.
	PI 2.4: Integrate social-behavioral science insights into clinical practice and research.
PLO 3: Develop evidence-based approaches for the diagnosis, management, and prevention of health conditions, as well as for continuous improvement into clinical practice.	**PI 3.1: Diagnose** health conditions accurately using evidence-based approaches.
	PI 3.2: Manage health conditions effectively using evidence-based approaches.
	PI 3.3: Design health promotion strategies using evidence-based approaches.
	PI 3.4: Formulate continuous improvement plans in clinical practice using evidence-based approaches.
II. SKILLS	
II. 1. Professional Skills	
PLO 4 [Clinical Skills]: Master history-taking, physical examination, procedural skills, clinical reasoning, interpretation of diagnostic tests, and healthcare management.	**PI 4.1: Adapt** history-taking skills to ensure accurate and comprehensive clinical evaluation.
	PI 4.2: Adapt physical examination skills to ensure accurate and comprehensive clinical evaluation.
	PI 4.3: Perform basic/essential procedure skills relevant to patient care correctly and safely.
	PI 4.4: Originate clinical reasoning in patient care through the synthesis of history-taking, physical examination findings, and interpretation of diagnostic tests.
	PI 4.5: Customize healthcare management plan through clinical reasoning from the synthesis of clinical data.
PLO 5 [Patient Management Skills]: Formulate safe, time-efficient, cost-	**PI 5.1: Formulate** safe decisions in health care through understanding of patient safety standards.

effective, and patient-centered decisions in health care.	**PI 5.2: Construct** time-efficient decisions to optimize patient care through the principle of medical prioritization.
	PI 5.3: Construct cost-effective decisions to optimize patient care through understanding of available resources.
	PI 5.4: Formulate patient-centered decisions in health care through effective communication and upholding respect for patient autonomy.
PLO 6 [Research Skills]: Create research and a plan addressing healthcare-related questions in clinical and/or public health practice.	**PI 6.1: Appraise** scientific literature in healthcare-related questions.
	PI 6.2: Create a research protocol to answer healthcare-related questions.
	PI 6.3: Combine data collection and analysis skills in research implementation.
	PI 6.4: Create a plan for improved clinical and/or public health practices based on scientific literature.
II.2. General Skills	
PLO 7 [Teamwork and Leadership Skills, Communication Skills]: Demonstrate effective communication and collaboration with colleagues, interprofessional team members, patients, and their families grounded in mutual respect, empathy, integrity, and honesty.	**PI 7.1: Demonstrate** leadership skills including oversight in an interprofessional teams.
	PI 7.2: Demonstrate collaborative skills with interprofessional team members to enhance patient safety and quality improvement.
	PI 7.3: Demonstrate effective communication skills with patients and families, fostering an environment of mutual respect, empathy, integrity and honesty in healthcare delivery.
III. ATTITUDE	
PLO 8 [Ethics, Responsibility]: Adhere to the ethical and professional standards and legal regulations in the practice of medicine.	**8.1. Adhere** to professional standards in clinical practice.
	8.2. Adhere to legal regulations in medical practice.
	8.3. Display the values of diversity, equity, inclusion, and anti-racism into personal and professional conduct.
	8.4: Advocate for individuals, patients, healthcare systems, and/or communities based on social, cultural, and/or contextual factors toward improved healthcare outcomes.
PLO 9 [Life-long Learning]: Integrate reflective practices and self-evaluation in personal and professional development.	**9.1:** Continuously **engage** in reflection-in-actionself reflection toward indentification of personal strengths and areas for professional improvement and a commitment to lifelong learning.
	9.2: Formulate personal development plans based on reflective practices and self-evaluation toward personal and professional development
PLO 10 [Entrepreneurship and Leadership Mindset]: Demonstrate entrepreneurial and leadership mindsets in professional development and in healthcare settings.	**10.1: Demonstrate** entrepreneurial and leadership mindsets in professional development.
	10.2: Demonstrate entrepreneurial and leadership mindsets in healthcare settings.

3. CURRICULUM STRUCTURE

3.1. Curriculum Composition

No	Curriculum Composition	Total	Credit		Credit Distribution (%/Total Credits)
			T	P	
1	**VinCore#**	**24**	**24**	**0**	**11%**
2	**Professional Education**	**204**	**79.5**	**122.5**	**89%**
2.1	Basic Sciences	13	10	3	6%
2.2	Pre-clinical Courses	79.5	43.5	36	35%
2.3	Clinical Courses	94	26	68	41%
2.4	Elective Courses	11	0	11	5%
2.5	Scholarly Project	2.5	0	2.5	1%
2.6	Graduation Module	4	2	2	2%
Total		**228**	**105.5**	**122.5**	**100%**

#: VinCore courses comprise of both credited and non-credited courses

Important Note:

- The Vincore Program has been issued along with the Decision No. 475/2024/QĐ-VUNI dated September 4th, 2024.
- International students are exempted from National Defense Education. However, they are still required to take ideology courses, including: History of the Communist Party, Ho Chi Minh Ideology, Scientific Socialism, Marxism-Leninism Political Economy, Marxism-Leninism Philosophy (In line with Decision No. 494/QĐ-TTg, issued on June 24, 2002, by the Prime Minister).

3.2. Courses and Credit Distribution by Courses

VINCORE								
No	**Year**	**Course code**	**Courses / Educational Units**	**Total**	**Credit**		**Grading system***	**Pre-requisite**
					T	**P**		
1	Year 1	HASS1010	Marxism-Leninism Philosophy (Philosophy, Science and Society	3	3	0	L	
2	Year 1	HASS1020	Marxism-Leninism Political Economy (Global Political Economy)	2	2	0	L	
3	Year 1	HASS1030	Scientific Socialism (Politics and Social Change)	2	2	0	L	
4	Year 1	HASS1050	History of the Communist Party (Vietnam History and Culture I)	2	2	0	L	
5	Year 1	HASS1041/42	Ho Chi Minh Ideology (Vietnam History and Culture II)	2	2	0	L	
6	Year 1	HASS1070	Cross-Cultural Navigation	2	2	0	L	
7	Year 1	ENTR1022	Agile Innovation and Entrepreneurship	2	2	0	L	
8	Year 1	ENGL1011/ENGL1030	ENGL1011: Fundamentals of Academic Writing or ENGL1030: Academic and Professional Writing	3	3	0	L	
9	Year 1	IDEA1010/11/12/X	Big Ideas: X (The IDEA1010/11/12 series, titled 'Big Ideas (X)' will have its course code and title defined each semester, allowing the course content to align with the key themes and innovative design concepts)	2	2	0	L	
10	Year 1	LAW1010	Introduction to Law	2	2	0	L	
11	Year 1	LEAD1031	Leadership and Teambuilding Bootcamp	2	2	0	P/F	
12	Year 1	COSL1010	Community Service Learning	Non-credit			P/F	
13	Year 1	VCOR1012A/B	OASIS (Orientation, Advising, Skills, Identity & Diversity and Spirit of Pay-it-Forward)				P/F	

14	Year 1	VCOR1021	Healthy Lifestyle 1				P/F	
15	Year 1	VCOR1022	Healthy Lifestyle 2				P/F	
16	Year 1	VCOR1030	National Defense Education (for Vietnamese citizens only)				P/F	
Total				**24**	**24**	**0**		
PROFESSIONAL EDUCATION								
No	**Year**	**Course code**	**Courses / Educational Units**	**Total**	**Credit**		**Grading system***	**Pre-requisite**
					T	**P**		
Basic Sciences								
17	Year 1	BIOL1012	Biology	4	2	2	L	
18	Year 1	PHYS1011	Biophysics	3.5	3	0.5	L	
19	Year 1	CHEM1021	Chemistry	2.5	2	0.5	L	
20	Year 1	BIOL1020	Bioinformatics	1	1	0	L	
21	Year 3	ARTS1020A/B	Arts (Medical Humanities)	2	2	0	P/F	
Total				**13**	**10**	**3**		
Pre-clinical Courses								
22	Year 1,4	MEDI1010A/B	Introduction to Professionalism in Medicine	3.5	1.5	2	L	
23	Year 1	MEDI1070	Biochemistry	4.5	3	1.5	L	BIOL1012, CHEM1021
24	Year 1	MEDI3050	Nutrition and Food Hygiene	1.5	1	0.5	L	
25	Year 2	MEDI1050	Human Body Structure and Functions 1	7	4	3	L	BIOL1012, PHYS1011, CHEM1021, MEDI1070, MEDI3050
26	Year 2	MEDI1060	Human Body Structure and Functions 2	7	3	4	L	BIOL1012, PHYS1011, CHEM1021, MEDI1070, MEDI3050
27	Year 2	MEDI1081	Medical Genetics	3	2	1	L	BIOL1012, PHYS1011, CHEM1021, MEDI1070, MEDI3050
28	Year 2	MEDI2010	Immunology	3	2	1	L	BIOL1012, PHYS1011, CHEM1021, MEDI1070, MEDI3050

29	Year 2	MEDI2020	Microbiology/Parasitology	4	3	1	L	BIOL1012, PHYS1011, CHEM1021, MEDI1070, MEDI3050
30	Year 2	MEDI1021A/B	Fundamentals of Population & Health Research 1	3	2	1	L	BIOL1020
31	Year 2	MEDI2110A/B	Introduction to Clinical Medicine 1	2	0	2	P/F	
32	Year 3		Mechanisms of Disease and principles of Therapeutic Interventions (MDpTI)	2	1	1	L	MEDI1050, MEDI1060, MEDI1081, MEDI2010, MEDI2020
33	Year 3		Rheumatology/Musculoskeletal	2	1	1	L	MEDI1050, MEDI1060, MEDI1081, MEDI2010, MEDI2020
34	Year 3	MEDI2040	Hematology/Oncology	3	2	1	L	MEDI1050, MEDI1060, MEDI1081, MEDI2010, MEDI2020
35	Year 3	MEDI2050	Neuromuscular/Psychiatry	4	2	2	L	MEDI1050, MEDI1060, MEDI1081, MEDI2010, MEDI2020
36	Year 3	MEDI2060	Endocrine/Reproduction	3	2	1	L	MEDI1050, MEDI1060, MEDI1081, MEDI2010, MEDI2020
37	Year 3	MEDI2070	Gastrointestinal/Nutrition	3	2	1	L	MEDI1050, MEDI1060, MEDI1081, MEDI2010, MEDI2020
38	Year 3	MEDI2080	Cardiology	3	2	1	L	MEDI1050, MEDI1060, MEDI1081, MEDI2010, MEDI2020
39	Year 3	MEDI2090	Dermatology	2	1	1	L	MEDI1050, MEDI1060, MEDI1081, MEDI2010, MEDI2020

40	Year 3	MEDI2100	Pulmonary	4	2	2	L	MEDI1050, MEDI1060, MEDI1081, MEDI2010, MEDI2020
41	Year 3	MEDI3020	Renal/Electrolyte Metabolism/Urology	3	2	1	L	MEDI1050, MEDI1060, MEDI1081, MEDI2010, MEDI2020
42	Year 3	MEDI3031	Infectious Disease/HIV/Parasitology	2	1	1	L	MEDI1050, MEDI1060, MEDI1081, MEDI2010, MEDI2020
43	Year 3	MEDI3071	Fundamental of Population & Health Research 2	2	1	1	L	MEDI1021A/B
44	Year 4	MEDI3080	Fundamental of Population & Health Research 3	2	1	1	L	MEDI1021A/B
45	Year 3	MEDI3010A/B	Introduction to Clinical Medicine 2	2	0	2	P/F	MEDI2110A/B
46	Year 4	MEDI1035	Health Education and Promotion	4	2	2	P/F	
Total				**79.5**	**43.5**	**36**		
Clinical Courses								
47	Year 4	MEDI4000	Transition to Clinical Training	4	2	2	L	MDpTI, Rheumatology/Musculoskeletal, MEDI2040, MEDI2050, MEDI2060, MEDI2070, MEDI2080, MEDI2090, MEDI2100, MEDI3031
48	Year 4	MEDI3090	Internal Medicine 1	8	2	6	L	MDpTI, Rheumatology/Musculoskeletal, MEDI2040, MEDI2050, MEDI2060, MEDI2070, MEDI2080, MEDI2090, MEDI2100, MEDI3031

49	Year 4	MEDI4020	Surgery 1	8	2	6	L	MDpTI, Rheumatology/Musculoskeletal, MEDI2040, MEDI2050, MEDI2060, MEDI2070, MEDI2080, MEDI2090, MEDI2100, MEDI3031
50	Year 4	MEDI4040	Obstetrics and Gynecology 1	4	1	3	L	MDpTI, Rheumatology/Musculoskeletal, MEDI2040, MEDI2050, MEDI2060, MEDI2070, MEDI2080, MEDI2090, MEDI2100, MEDI3031
51	Year 4	MEDI4060	Pediatrics 1	4	1	3	L	MDpTI, Rheumatology/Musculoskeletal, MEDI2040, MEDI2050, MEDI2060, MEDI2070, MEDI2080, MEDI2090, MEDI2100, MEDI3031
52	Year 4	MEDI5070	Neurology	4	1	3	L	MDpTI, Rheumatology/Musculoskeletal, MEDI2040, MEDI2050, MEDI2060, MEDI2070, MEDI2080, MEDI2090, MEDI2100, MEDI3031
53	Year 4	MEDI5080	Psychiatry	4	1	3	L	MDpTI, Rheumatology/Musculoskeletal, MEDI2040, MEDI2050, MEDI2060, MEDI2070, MEDI2080, MEDI2090, MEDI2100, MEDI3031
54	Year 4	MEDI4011A/B	Introduction to Clinical Medicine 3	2	0	2	P/F	MEDI3010A/B
55	Year 5	MEDI5011A/B	Introduction to Clinical Medicine 4	2	0	2	P/F	MEDI4011A/B

56	Year 5	MEDI4080	Infectious Disease	4	1	3	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
57	Year 5	MEDI4090	Traditional Medicine	2	1	1	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
58	Year 5	MEDI5010	Tuberculosis	2	1	1	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
59	Year 5	MEDI5050	Dermatology	2	1	1	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
60	Year 5	MEDI5090	Oncology/Hematology	4	1	3	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
61	Year 5	MEDI6010	Community Medicine/Family Practice	6	2	4	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
62	Year 5	MEDI6020	Emergency Medicine	2	1	1	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
63	Year 6	MEDI4010	Internal Medicine 2	8	2	6	L	MEDI4080, MEDI4090, MEDI5010, MEDI5050, MEDI5090, MEDI6010, MEDI6020, Elective Courses

64	Year 6	MEDI4030	Surgery and Surgical Specialties 2	8	2	6	L	MEDI4080, MEDI4090, MEDI5010, MEDI5050, MEDI5090, MEDI6010, MEDI6020, Elective Courses
65	Year 6	MEDI4050	Obstetrics and Gynecology 2	8	2	6	L	MEDI4080, MEDI4090, MEDI5010, MEDI5050, MEDI5090, MEDI6010, MEDI6020, Elective Courses
66	Year 6	MEDI4070	Pediatrics 2	8	2	6	L	MEDI4080, MEDI4090, MEDI5010, MEDI5050, MEDI5090, MEDI6010, MEDI6020, Elective Courses
Total				**94**	**26**	**68**		
Elective Courses (students select 11 credits, at least 1 course which has 3 credits) **								
67	Year 5	MEDI5020	Dental Stomatology Elective	2	0	2	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
68	Year 5	MEDI5030	Ear - Nose - Throat (ENT) Elective	2	0	2	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
69	Year 5	MEDI5040	Ophthalmology Elective	2	0	2	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
70	Year 5	MEDI5060	Introduction to Rehabilitation Elective	2	0	2	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080

71	Year 5	MEDI6070	Forensic Medicine Elective	2	0	2	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
72	Year 5	MEDI6080	Radiology/ Nuclear Medicine Elective	2	0	2	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
73	Year 5	MEDI6101	Anesthesia Elective	2	0	2	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
74	Year 5	MEDI4390	Palliative Care Elective	2	0	2	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
75	Year 5	MEDI6340	Sleep Medicine Elective	2	0	2	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
76	Year 5	MEDI6110	Urology Elective	2	0	2	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
77	Year 5	MEDI6410	Neurosurgery Elective	2	0	2	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
78	Year 5	MEDI6510	Plastic Surgery Elective	2	0	2	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080

79	Year 5		Medical Genetics and Genomics Elective	2	0	2	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
80	Year 5	MEDI6011	Mental Health Elective (outpatient)	4	0	4	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
81	Year 5	MEDI4061	Pediatrics Elective (outpatient)	4	0	4	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
82	Year 5	MEDI5110	OB-GYN Elective (outpatient)	4	0	4	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
83	Year 5	MEDI6210	Orthopedics & Rehabilitation Elective	4	0	4	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
84	Year 5	MEDI6310	Cardiovascular Surgery Elective	4	0	4	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
85	Year 5	MEDI6151	Thoracic Surgery Elective	4	0	4	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
86	Year 5	MEDI6022	Critical Care Elective	3	0	3	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080

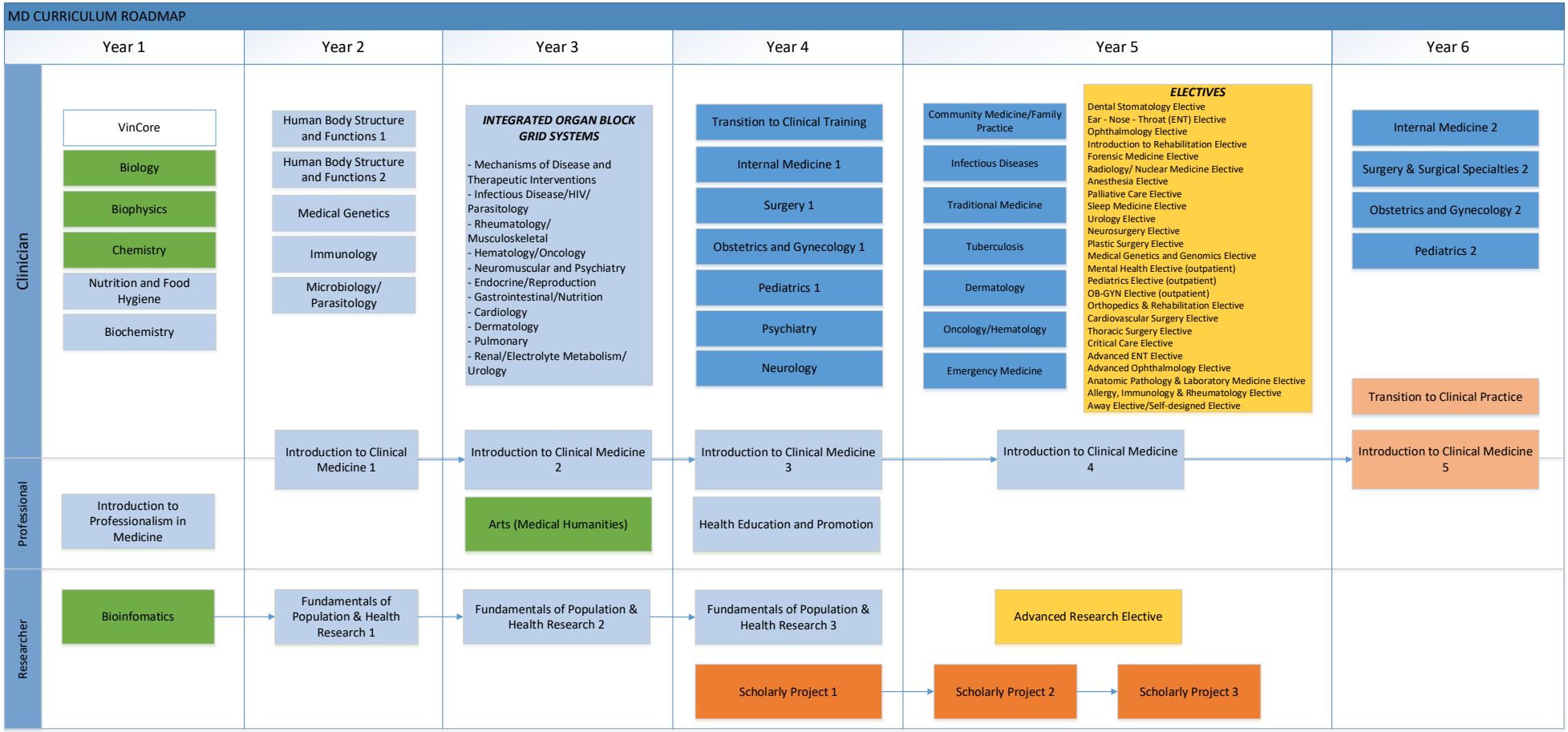
87	Year 5	MEDI6611	Advanced ENT Elective	3	0	3	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
88	Year 5	MEDI6711	Advanced Ophthalmology Elective	3	0	3	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
89	Year 5	MEDI6811	Anatomic Pathology & Laboratory Medicine Elective	3	0	3	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
90	Year 5	MEDI6911	Allergy, Immunology & Rheumatology Elective	3	0	3	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
91	Year 5	MEDI7000/MEDI7001	Away/Self-designed Elective	2 or 4	0	2 or 4	L	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080
92	Year 5	MEDI7032/ MEDI7033/ MEDI7034	Advanced Research Elective	2 to 4	0	2 to 4	L	MEDI6092
Total				**11**	**0**	**11**		
Scholarly Project								
92	Year 4	MEDI6092	Scholarly Project 1	0.5	0	0.5	P/F	MEDI3071
93	Year 5	MEDI7010	Scholarly Project 2	1	0	1	P/F	MEDI6092
94	Year 5	MEDI7020	Scholarly Project 3	1	0	1	P/F	MEDI7010
Total				**2.5**	**0**	**2.5**		

Graduation Module								
95	Year 6	MEDI6030	Transition to Clinical Practice	2	2	0	L	MEDI4080, MEDI4090, MEDI5010, MEDI5050, MEDI5090, MEDI6010, MEDI6020, Elective Courses
96	Year 6	MEDI6011A/B	Introduction to Clinical Medicine 5	2	0	2	L	MEDI5011A/B
Total				**4**	**2**	**2**		
GRAND TOTAL				**228**	**105.5**	**122.5**		

** L: Letter grade, P/F: Pass/Fail*

***Students can select elective courses based on the offerings for the semester or academic year, respectively.*

3.3. MD Curriculum Roadmap



**Note: White box: VinCore, Green box: Basic Sciences, Light Blue box: Pre-clinical Courses, Dark Blue box: Clinical Courses, Yellow box: Elective Courses, Dark Orange box: Scholarly Project, Light Orange box: Graduation Module.*

3.4. Cross-Listing/ Equivalent Courses applicable for Cohort 2024 – 2030

Cross-Listing/ Equivalent Courses					Cross-Listing/ Equivalent Courses from AY25-26 Curriculum Framework				
Course Code	**Course Title**	**Total Credit**	**Pre-requisites/ Co-Requisites**	**Grading System**	**Course Code**	**Course Title**	**Total Credit**	**Pre-requisites/ Co-Requisites**	**Grading System**
MEDI1080	Genetics	3	BIOL1012, PHYS1011, CHEM1021, MEDI1070, MEDI3050	L	MEDI1081	Genetics	3	BIOL1012, PHYS1011, CHEM1021, MEDI1070, MEDI3050	L
MEDI2030	MDTI/ Rheumatology/ Musculoskeletal	3	MEDI1050, MEDI1060, MEDI1080, MEDI2010, MEDI2020	L		Mechanisms of Disease and principles of Therapeutic Interventions (MDpTI)	2	MEDI1050, MEDI1060, MEDI1080, MEDI2010, MEDI2020	L
						Rheumatology/Musculoskeletal	2	MEDI1050, MEDI1060, MEDI1080, MEDI2010, MEDI2020	L
MEDI3030	Infectious Disease/ HIV/ Parasitology	4	MEDI1050, MEDI1060, MEDI1080, MEDI2010, MEDI2020	L	MEDI3031	Infectious Disease/ HIV/ Parasitology	2	MEDI1050, MEDI1060, MEDI1080, MEDI2010, MEDI2020	L

Cross-Listing/ Equivalent Courses					Cross-Listing/ Equivalent Courses from AY25-26 Curriculum Framework				
Course Code	**Course Title**	**Total Credit**	**Pre-requisites/ Co-Requisites**	**Grading System**	**Course Code**	**Course Title**	**Total Credit**	**Pre-requisites/ Co-Requisites**	**Grading System**
MEDI6021	Critical Care Elective	2	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080	L	MEDI6022	Critical Care Elective	3	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080	L
MEDI6610	Advanced ENT Elective	4	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080	L	MEDI6611	Advanced ENT Elective	3	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080	L
MEDI6710	Advanced Ophthalmology Elective	4	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080	L	MEDI6711	Advanced Ophthalmology Elective	3	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080	L
MEDI6810	Anatomic Pathology & Laboratory Medicine Elective	4	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080	L	MEDI6811	Anatomic Pathology & Laboratory Medicine Elective	3	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080	L

Cross-Listing/ Equivalent Courses					Cross-Listing/ Equivalent Courses from AY25-26 Curriculum Framework				
Course Code	**Course Title**	**Total Credit**	**Pre-requisites/ Co-Requisites**	**Grading System**	**Course Code**	**Course Title**	**Total Credit**	**Pre-requisites/ Co-Requisites**	**Grading System**
MEDI6910	Allergy, Immunology & Rheumatology Elective	4	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080	L	MEDI6911	Allergy, Immunology & Rheumatology Elective	3	MEDI4000, MEDI3090, MEDI4020, MEDI4040, MEDI4060, MEDI5070, MEDI5080	L
MEDI6091	Scholarly Project 1	1	MEDI3071	L	MEDI6092	Scholarly Project 1	0.5	MEDI3071	L
MEDI6032	Transition to Clinical Practice	1.5	MEDI4080, MEDI4090, MEDI5010, MEDI5050, MEDI5090, MEDI6010, MEDI6020, Elective Courses	L	MEDI6030	Transition to Clinical Practice	2	MEDI4080, MEDI4090, MEDI5010, MEDI5050, MEDI5090, MEDI6010, MEDI6020, Elective Courses	L

4. COURSE DESCRIPTIONS

4.1. VinCore

Marxism-Leninism Philosophy (Philosophy, Science and Society)

3 credits

On successful completion of this course, students will be able to:

1. Understand the basic philosophical foundations of Marxism-Leninism, including dialectical materialism and historical materialism
2. Explain its significance in the development of Vietnam's state ideology and relevance to other areas of society including history, politics, and economics
3. Know that Vietnamese philosophy features elements of syncretism and be able to describe those elements (e.g., Marxism-Leninism, Confucianism, Buddhism, Daoism, etc.)
4. Describe, evaluate, and compare different answers to foundational philosophical questions such as "what exists?", "what is knowledge?", and "what is right and wrong?"
5. Understand and assess different approaches to the nature of science and scientific progress

Marxism-Leninism Political Economy (Global Political Economy)

2 credits

On successful completion of this course, students will be able to:

1. Demonstrate an understanding of the complexity of how the world is interconnected through the political economy.
2. Develop an informed understanding of conceptual terms and theoretical approaches used in understanding the global economy.
3. Understand the transformation of Vietnam in the context of the global political economy.
4. Cultivate a critical-minded awareness of major trends in the global political economy.
5. Acquire an informed understanding of the rise of China and India and the resulting impacts on Vietnam, ASEAN, and the world.

Scientific Socialism (Politics and Social Change)

2 credits

On successful completion of this course, students will be able to:

1. Describe and explain the concepts of politics and social change in Vietnam and around the region and acquire some lexicon of the subject.
2. Understand how politics and political systems are key to socio-economic developments, including but not limited to the Marxist-Leninist views.
3. Understand the ways politics affects economic management, and help determine national success

4. Compare Vietnam's national development with national efforts elsewhere in Asia.

History of the Communist Party (Vietnam History and Culture I)

2 credits

On successful completion of this course, students will be able to:

1. Know the major events, persons, and historical conditions that led to the creation and development of the Vietnamese Communist Party
2. Critically review historical artifacts, including textual documents, art, literature, archeology, and accounts of informants.
3. Grasp the historical factors and precedents that relate to contemporary issues and gain the ability to apply historical and cultural knowledge to understanding and analyzing contemporary problems
4. Present historical evidence-based arguments
5. Explore multiple perspectives about the past, especially the past as understood from the vantage of former historical actors.

Ho Chi Minh Ideology (Vietnam History and Culture II)

2 credits

On successful completion of this course, students will be able to:

1. Know the major events, persons, and historical conditions the led to the creation and development of Ho Chi Minh Ideology and engage Ho Chi Minh Ideology as both a historical and living body of thought.
2. Consider the ongoing transformation of Ho Chi Minh thought and its significance in history and for Vietnam's future.
3. Critically review historical artifacts, including textual documents, art, literature, archeology, and accounts of informants, and grasp the historical factors and precedents that relate to contemporary issues
4. Gain the ability to apply historical and cultural knowledge to understanding and analyzing contemporary problems
5. Present historical evidence-based arguments and conduct probing discussions about challenging historical subjects
6. Explore multiple perspectives about the past, especially the past as understood from the vantage of former historical actors.

Cross-Cultural Navigation

2 credits

On successful completion of this course, students will be able to:

1. Understand the ways in which individual identities, values, perceptions, and biases are shaped by cultures and different forms of life
2. Know the theories and practices related to the impact of culture in our daily ecologies in local and global contexts
3. Identify and understand the intersection of one's own and other's cultural identities
4. Apply knowledge of practice, theory, and personal reflection of different cultures to a particular issue that requires collaboration or cooperation between individuals or groups from different cultural backgrounds

Agile Innovation and Entrepreneurship

2 credits

On successful completion of this course, students will be able to:

1. Explain how an entrepreneurial mindset supports and accelerates innovation and growth in the contexts of businesses, industries, and countries.
2. Evaluate the multifaceted nature of entrepreneurship in Vietnam and internationally, and how it impacts the economy, society, and environment. Have access to insights on VinGroup's governance principles (the 6 Hóa).
3. Recommend strategies to evaluate the entrepreneurial mindset, values, and behaviors, and to further develop the entrepreneurial mindset, both individually and organizationally.
4. Grow your own entrepreneurial mindset and innovation-related skills, including identifying and evaluating opportunities, taking calculated risks, solving problems creatively, communicating effectively, and influencing stakeholder groups.
5. Demonstrate the ability to work productively in teams to collaboratively explore opportunities, generate ideas, and find and communicate solutions to a predefined challenge during the course hackathon.

Fundamentals of Academic Writing or Academic and Professional Writing

3 credits

On successful completion of this unit, students will be able to:

1. Identify and explain core attitudes, values, and practices of academic culture and how academic writing reflects these.
2. Reflect critically on the differences between academic and opinion writing and apply this understanding in the composition of academic essays, including referencing, quoting, and paraphrasing.

3. Evaluate the differences between academic and professional writing in terms of style, purpose, target audience, and techniques.
4. Develop your clear, concise, and well-structured writing skills, focusing on the most critical documents and situations in academic and professional work such as academic essays, newspaper articles, business reports, proposals, speeches.
5. Use AI to develop, enhance, and revise writing in both academic and professional contexts.

Big Ideas: X

2 credits

On successful completion of this course, students will be able to:
1. Describe and explain a "big idea", which may be a new solution to a problem, a disrupting technology, or an innovative method or way of doings things
2. Identify the implications of a big idea for everyday life or a professional setting
3. Develop a strategy for using a big idea to improve an existing approach or create a new application
4. Evaluate the application of a big idea, including an assessment of its positive impacts, negative impacts, and mitigating strategies for the theme of the year

Introduction to Law

2 credits

On successful completion of this course, students will be able to:
1. Explain the history, contemporary nature, and purpose of the Vietnamese legal system, including its key institutions, doctrines, and principles.
2. Describe and evaluate key differences and similarities between legal system management in Vietnam and internationally.
3. Understand the mechanisms of legal duty, justification of punishment, and the roles of courts and juries.
4. Apply fundamental legal rules and principles in a wide range of selected areas of the law, demonstrating critical thinking and ethical considerations.
5. Develop a mindset of compliance and appreciate the importance of adhering to legal standards in professional and personal context.

Leadership and Teambuilding Boot Camp

2 credits

On successful completion of this course, students will be able to:
1. Define foundational concepts of leadership traits, leadership styles, values, and trends, and their applications to real-life situations, especially in a turbulent world.
2. Describe and evaluate the differences and similarities between management and leadership, and their application in an organizational setting.

3. Evaluate the multifaceted nature of leadership in Vietnam and internationally, and their impact on work environments, particularly in a VUCA context. Have access to insights on Vingroup's mission, vision, and core values.
4. Develop your own leadership mindset by setting a vision, developing self-awareness, understanding others' perspectives, understanding situational contexts, communicating effectively, and making informed decisions. setting a vision, accepting accountability, understanding self and others' limits, inspiring and motivating others, and creating the collaborative conditions for success
5. Apply basic leadership values and skills through action-based learning, and building self, interpersonal, and team leadership during the leadership bootcamp.

Community Service Learning

Compulsory, Non-credit

On successful completion of this course, students will be able to:

1. Define and understand the essential components of service learning, including benefits, impact, and key attributes.
2. Critically reflect on social issues and UNESCO's sustainable development goals (SDGs) with reference to a planned service project
3. Plan and implement a service project in accordance with local laws and regulations
4. Reflect on the outcomes of that service project and how it could have been improved
5. Develop sensitivity and empathy to local community members

OASIS (Orientation, Advising, Skills, Identity & Diversity and Spirit of Pay-it-Forward)

Compulsory, Non-credit

On successful completion of this course, students will be able to:

1. Cultivate self-leadership, enhancing self-confidence, self-esteem, self-determination, and self-control.
2. Self- acquire and apply college readiness skills, life-long learning, effectively adapting to academic, social, and personal challenges of university life
3. Self- develop essential career skills, preparing for personal and professional success.
4. Embrace community involvement by actively participating in community service, demonstrating a commitment to positive societal impact and a pay-it-forward spirit.
5. Regularly reflect on personal growth and practice self-leadership throughout your university life, from the initial enrollment CV to the Individual Development Plan (IDP) and the pre-graduation CV, ensuring ongoing development and readiness for life after graduation.

Healthy Lifestyle

Compulsory, Non-credit

On successful completion of this course, students will be able to:

1. Understand the important principles of a healthy lifestyle, including balanced nutrition, regular physical activity, and mental well-being.
2. Understand your health, and develop your health strategies, including techniques for managing stress effectively and maintaining a balanced life.
3. Engage in self-discipline for nutrition, exercise, and rest, and actively participate in various physical and mental well-being clubs at the university.
4. Recognize the impact of lifestyle choices on long-term health and well-being and make informed decisions to enhance your quality of life.
5. Be motivated to promote well-being within communities through various means such as research, awareness campaigns, and participation in health clubs.

National Defense Education (*for Vietnamese citizens only*)

Compulsory, Non-credit

On successful completion of this course, students will be able to:

1. Understand and articulate knowledge of the National Defense and Security policies of the Communist Party of Vietnam.
2. Understand basic concepts of National Defense and security work.
3. Understand and practice the fundamental rules and disciplinary regulations in military organizations.
4. Practice the fundamental techniques and tactics of infantry combat.

4.2. Professional Education

4.2.1. Basic Sciences

Biology

4 credits

Biology is a compulsory subject for the first-year medical students. It covers basic biological principles as well as introductory concepts of molecular biology and human physiology to prepare students for the career development in medicine.

Biophysics

3.5 credits

Biophysics is a compulsory course for first-year medical students. This course provides fundamental knowledge about Physics and Biophysics which covers five main topics in Physics such as: Mechanics, Thermodynamics, Electromagnetics, Optics and Nuclear Physics. In both theory and practice/ laboratory portion, the course is designed so as the student can understand the involvement of physics in many areas of biology, and medicine in both basic understanding of process/ function as well as in experimental techniques.

Chemistry

2.5 credits

Chemistry is a compulsory course for the first-year medical students. It combines basic chemistry: generalization of atoms, molecules and chemical bonds; inorganic substances and basic dynamic and equilibrium processes; important organic groups related to organisms and life; basic analytical techniques for clinical and biomedical applications.

Bioinformatics

1 credit

Bioinformatics is an interdisciplinary course that combines knowledge of information sciences and medical sciences to optimize the use and application of medical data across the spectrum from individuals to populations. It provides basic knowledge of health information systems, data gathering, and management, applied to scientific research, medical analysis and statistics to support treatment plan establishment and evidence-based decision-making. Students will be introduced basic skills to apply medical software/systems on the activities related to healthcare management and operations.

Arts (Medical Humanities)

2 credits

The course focusses on using various forms of creative arts to understand empathy, suffering, disability, ailment, burnout in the practice of medicine. The goal is to provide medical students with a deeper understanding of the patient and physician's perspective through reflections, poetry and paintings. Medical humanities are a broad area of study and practice encompassing all nontechnical or 'human' aspects of medicine. It is a year-long course bringing the arts and science of Medicine together. As students commence their clinical internships, they need to understand the importance of humanities in the management of illness and the patient experience. This course will also cover the VinUni attributes, Empathy and Creativity.

4.2.2. Pre-clinical Courses

Introduction to Professionalism in Medicine

3.5 credit

This course in year one sets the foundations of professionalism. Students being the active learners, will identify the core components of what it means to be a professional as medical student and a doctor in later years. These components once identified will determine the content to be learned across the six years.

Biochemistry

4.5 credits

Biochemistry is designed to provide the medical student with an overview of the basic functional principles of biochemistry. This course covers the biochemical pathways, cellular signaling, and communications systems that regulate metabolic processes. It builds on these fundamental principles by providing an integrated approach that correlates with case presentations to explore how defects in the metabolic pathways alter the physiology of the cell and how disease ensues.

Nutrition and Food Hygiene

1.5 credits

Nutrition and Food Hygiene provides fundamental knowledge and practical skills to engage healthy nutrition planning and food hygiene management to promote nutrition and health of individuals and communities.

Human Body Structure and Functions 1

7 credits

These are sequential courses that integrate gross and embryologic anatomy of the human body, principles of physiology with the structure and function of cells and tissues. Imaging anatomy in radiology is also included. The courses are organized into units based upon the body systems and emphasize the clinical

anatomy essential to the practice of medicine, physiologic processes in the human body. The courses include lectures, laboratories, and case studies.

Human Body Structure and Functions 2

7 credits

These are sequential courses that integrate gross and embryologic anatomy of the human body, principles of physiology with the structure and function of cells and tissues. Imaging anatomy in radiology is also included. The courses are organized into units based upon the body systems and emphasize the clinical anatomy essential to the practice of medicine, physiologic processes in the human body. The courses include lectures, laboratories, and case studies.

Medical Genetics

3 credits

Medical Genetics is designed to introduce the medical student to the fundamental concepts and techniques of modern human genetics and genomics. This course provides a basic introduction to the structure and function of genes and the general organization of the Human Genome. The course will also cover key concepts of gene regulation and epigenetics in normal cells. This is followed by content about chromosomes and chromosomal abnormalities as they relate to disease. The second half of the course is used to highlight the clinical significance and translation of key genetic concepts.

Immunology

3 credits

Immunology is designed to teach the medical student about the cellular and molecular basis of immune-mediated host defenses to invading microbes. This course provides a basic introduction to the general organization and functional principles of host defense elements. It builds on these fundamental principles covered by providing an integrated approach that correlates with case presentations to highlight the clinical significance and translation of key immunological concepts.

Microbiology/Parasitology

4 credits

Microbiology/Parasitology is designed to introduce the medical student to the fundamental principles of microbiology and parasitology. This course provides an overview of microbiology and covers basic bacteriology, virology, mycology and parasitology. Throughout the second semester, an integrated approach with case discussions highlights the role of host defenses and correlates organisms with disease presentations.

Mechanisms of Disease and principles of Therapeutic Interventions

2 credits

The Mechanisms of Disease and Therapeutic Interventions block an overview of essential concepts incorporated into each organ system block. This course has three major components: overview of cellular and tissue responses to injury; general pathology and pharmacological principles; and diagnostic and therapeutic approaches related to disease mechanisms and treatment strategies.

Infectious Disease/HIV/Parasitology

2 credits

The Infectious Diseases/HIV/Parasitology block focuses on various types of infections. Following a review of the different classes of organisms causing disease/disorder, this course provides an integrated approach that correlates basic pathogenetic and pathophysiologic principles with the diagnostic, clinical, and therapeutic aspects of infectious and parasitic diseases.

Rheumatology/Musculoskeletal

2 credits

The Rheumatology/Musculoskeletal course focuses on various musculoskeletal disorders and rheumatologic conditions. Following a review of the different types of musculoskeletal diseases, this course provides an integrated approach that correlates basic pathogenetic and pathophysiologic principles with the diagnostic, clinical, and therapeutic aspects of musculoskeletal and rheumatologic disorders.

Hematology/Oncology

3 credits

The Hematology/Oncology block focuses on various elements of the blood, bone marrow, and lymphatic system as well as general concepts in oncology. This course has two components: an overview of cancer biology and management, followed by coverage of the cellular elements of blood and the diseases/disorders affecting each of those elements.

Neuromuscular/Psychiatry

4 credits

The Neuromuscular/Psychiatry block focuses on the nervous system as well as mental health and behavioral health diseases/disorders. Following a review of the normal structure and function of the nervous system, this course provides an integrated approach that correlates basic pathogenetic and pathophysiologic principles with the diagnostic, clinical, and therapeutic aspects of diseases/disorders affecting the neuromuscular system.

Endocrine/Reproduction

3 credits

The Endocrine/Reproduction block focuses on various hormones that affect metabolism, growth and development, sexual function, and reproduction as well as the reproductive system. Following a review of the normal structure and function of the endocrine and reproductive systems, this course provides an integrated approach that correlates basic pathogenetic and pathophysiologic principles with the diagnostic, clinical, and therapeutic aspects of diseases/disorders affecting the endocrine and reproductive systems.

Gastrointestinal/Nutrition

3 credits

The Gastrointestinal/Nutrition block focuses on the digestive system and the absorption of various nutrients. Following a review of the normal structure and function of the gastrointestinal system, this course provides an integrated approach that correlates basic pathogenetic and pathophysiologic principles with the diagnostic, clinical, and therapeutic aspects of diseases/disorders affecting the gastrointestinal system.

Cardiology

3 credits

The Cardiology block focuses on the heart and circulatory system. Following a review of the normal structure and function of the cardiovascular system, this course provides an integrated approach that correlates basic pathogenetic and pathophysiologic principles with the diagnostic, clinical, and therapeutic aspects of diseases/disorders affecting the cardiovascular system

Dermatology

2 credits

The Dermatology block focuses on the skin, hair, and nails. Following a review of the normal structure and function of the skin, this course provides an integrated approach that correlates basic pathogenetic and pathophysiologic principles with the diagnostic, clinical, and therapeutic aspects of diseases/disorders affecting the skin and its appendages.

Pulmonary

4 credits

The Pulmonary block is an integrated course that focuses on the respiratory tract. Following a review of the normal structure and function of the respiratory system, this course provides an integrated approach that correlates basic pathogenetic and pathophysiologic principles with the diagnostic, clinical, and therapeutic aspects of diseases/disorders affecting the respiratory system.

Renal/Electrolyte Metabolism/Urology

3 credits

The Renal/Electrolyte Metabolism/Urology block focuses on the kidneys and genitourinary system. This course has two major components: a review of the normal structure and function of the kidney along with an overview of fluid, electrolyte, and acid-base physiology and diseases/ disorders; and an integrated approach correlating basic pathogenetic and pathophysiologic principles with diagnostic, clinical, and therapeutic aspects of diseases/ disorders affecting the urinary tract.

Fundamentals of Population & Health Research 1

(Introduction to Epidemiology and Public Health)

3 credits

This course introduces the basic concepts and inferential methods of biostatistics and epidemiology. It is designed to enable the medical student to gain foundational knowledge within these fields and apply basic principles as relevant to medicine. This course will also cover topics in demography, research methods and ethics as well as critical reading, interpretation, and analysis of medical literature.

Fundamentals of Population & Health Research 2

(Health Economics, Health Systems, Policy and Law)

2 credits

Health Economics - Health System - Health Policy and Law course includes concepts and applications of principles in health system operation. It introduces the organizational models and facilitators of healthcare systems, specifically the functions and responsibilities of institutions and networks in the Vietnamese health promotion and services delivery system.

This course also provides basic concepts of health economics and development, the use of economic evidence in health planning, priority setting, medical decision making, and sustaining the health financing system. This will also enable students to deepen understandings of policy development and legal infrastructures in the Vietnamese health sector, and its implications in maximizing the system efficiency and quality as well as population health outcomes.

Fundamentals of Population & Health Research 3

(Healthcare Quality Improvement, Patient Safety, and Evidence Based Medicine)

2 credits

This course is a unique course of VinUni which introduces key concepts and principles of health quality improvement and patient safety, methods for evaluating and monitoring quality and outcomes of health services and the applications of guidelines towards international goals in patient safety. This course will

prepare students with understanding of hospital environment and regulations to provide high quality and effective medical services that helps them maximize clinical learning outcomes in senior years.

Introduction to Clinical Medicine 1

2 credits

Introduction to Clinical Medicine 1 is a practical course focusing on developing both clinical and interpersonal abilities. Throughout this course, students will be able to learn the principles of patient history-taking and physical examinations techniques. Additionally, students will learn the art of empathetic, culturally sensitive patient communication. This course is a gateway to enable students to become a well-rounded, compassionate healthcare provider.

This course has two components: (1) communication skills and (2) physical examination skills.

This is a practical course in the six-year MD program. It is integral for the students to have hands-on experience of familiarizing with the basic communication and physical examination skills in different clinical encounters

Introduction to Clinical Medicine 2

2 credits

Introduction to Clinical Medicine 2 is a practical course focusing on developing both clinical and interpersonal skills. Throughout this course, students will be able to practice the principles of patient history-taking and physical examinations techniques in a more comprehensive manner. Additionally, students will practice the art of empathetic, culturally sensitive patient communication. This course is a gateway to enable students to become a well-rounded, compassionate healthcare provider.

This course covers 4 important clinical skills: (1) history taking skills, (2) physical examination skills, (3) communication and interpersonal skills, (4) clinical reasoning skills.

This is a practical course in the six-year MD program. It is integral for the students to have hands-on experience of discovering normal and abnormal signs of the patients.

Health Education and Promotion

4 credits

This course introduces students to essential concepts, models, and strategies in health education and health promotion. It aims to develop students' abilities to effectively promote health and support behavioral change in individuals and communities. The course emphasizes experiential learning through extended fieldwork, health campaigns, and community-based projects. Students will explore how to engage communities, address health inequalities, and work across sectors to foster ownership and empowerment. Through hands-on learning, students will develop and implement health education and promotion activities in real-world settings such as clinics, schools, and local organizations.

4.2.3. Clinical Courses

Transition to Clinical Training

4 credits

Transition to Clinical Training (TCT) is a 4-week course that bridges the gap between preclinical and clinical years in undergraduate medical education. It prepares students for clerkship rotations by providing essential skills, core knowledge, and understanding. The course includes Introduction to Clinical Medicine (ICM), focusing on clinical skills; Hospital Preparation (HP), covering the clinical practice environment; and Differential Diagnosis (DDX), emphasizing symptom-based diagnosis. TCT ensures students are equipped for clinical training and delivering quality patient care for the upcoming clerkship period.

Internal Medicine 1

8 credits

Internal Medicine 1 is a clinical rotation that focuses on health and illness in adult patients. Rotation objectives include: observational and supervised direct care of internal medicine patients in hospital and outpatient settings, with emphasis on acquisition of information from history and physical examination, case presentation, integration and interpretation of clinical information, clinical reasoning and diagnostic and therapeutic options.

Internal Medicine 2

8 credits

Internal Medicine 2 is an advanced clinical rotation that builds upon the internal medicine clinical experience during fourth year. Rotation objectives include: clinical care of internal medicine patients in both inpatient and outpatient settings; provision of graduated levels of independence and responsibility compared to the fourth-year internal medicine rotation; development of skills in internal medicine procedures; and application of knowledge and skills learned from prior rotations, research and medical practice principles and interprofessional education training to promote competent practice in internal medicine.

Surgery 1

8 credits

Surgery 1 is a clinical rotation that focuses on the use of procedural techniques to treat illness and improve health. Rotation objectives include: observational and supervised direct care of surgical patients in hospital and outpatient settings, with emphasis on diagnostic evaluation of potential surgical problems, preoperative evaluation, participation in surgical procedures and postoperative care.

Surgery and Surgical Specialties 2

8 credits

Surgery and Surgical Specialties 2 is an advanced clinical rotation that builds upon the surgery clinical experiences during fourth year. Rotation objectives include: clinical care of patients in both inpatient and outpatient settings, provision of graduated levels of independence and responsibility compared to the fourth-year surgery rotation; development of skills in basic surgical procedures; and application of knowledge and skills learned from prior rotations, research and medical practice principles, and interprofessional education training to promote competent practice in surgery and surgical specialties.

Obstetrics and Gynecology 1

4 credits

Obstetrics and Gynecology 1 is a clinical rotation dealing with health and illness in women, focusing on the reproductive system. Rotation objectives include observational and supervised direct care of women throughout pregnancy, including labor and delivery; skill development in pelvic and breast examinations; and observational and supervised direct care of women with disorders of the breast and the female reproductive system.

Obstetrics and Gynecology 2

8 credits

Obstetrics and Gynecology 2 is an advanced clinical rotation that builds upon the obstetrics and gynecology clinical experiences during fourth year. Rotation objectives include: clinical care of women in both inpatient and outpatient settings, provision of graduated levels of independence and responsibility compared to the fourth-year obstetrics and gynecology rotation; active participation in labor and delivery; development of skills in basic obstetrics and gynecology procedures; and application of knowledge and skills learned from prior rotations, research and medical practice principles, and interprofessional education training to promote competent practice.

Pediatrics 1

4 credits

Pediatrics 1 is a clinical rotation that focuses on health and illness in infants, children, and adolescents. Rotation objectives include observational and supervised direct care of pediatric patients in hospital and outpatient settings, with emphasis on normal development, prevention and health maintenance, acquisition of information from history and physical examination, case presentation, integration and interpretation of clinical information and diagnostic and therapeutic decision-making.

Pediatrics 2

8 credits

Pediatrics 2 is an advanced clinical rotation that builds upon the pediatrics clinical experience during fourth year. Rotation objectives include clinical care of children in both inpatient and outpatient settings; provision of graduated levels of independence and responsibility compared to the fourth-year pediatrics rotation; development of skills in pediatric procedures; and application of knowledge and skills learned from prior rotations, research and medical practice principles and interprofessional education training to promote competent practice in pediatrics.

Neurology

4 credits

Neurology is a clinical rotation that focuses on diagnosis and management of diseases of the nervous system. Rotation objectives include observational and supervised direct care of patients with disorders of the nervous system, and skill development in the neurologic examination and the sampling of cerebrospinal fluid by lumbar puncture.

Psychiatry

4 credits

Psychiatry is a clinical rotation that focuses on mental and behavioral health. Rotation objectives include observational and supervised direct care of patients with behavioral and mental health disorders, with a focus on diagnostic evaluation and management, including pharmacologic management.

Introduction to Clinical Medicine 3

2 credits

The Introduction to Clinical Medicine 3 (ICM3) module is a continuum of the ICM 1 and 2 modules. In this module, students will attend the simulation centre on Fridays during the Academic Day to learn common medical procedural skills that Year 4 clerkship medical students should know. The simulation centre provides a controlled and immersive environment to learn and practice these crucial procedural skills. The teaching and learning approach combines hands-on experience, technology, and feedback to prepare you better, the future medical professionals for the complexities of healthcare settings.

Introduction to Clinical Medicine 4

2 credits

This course has two components: (1) advanced communication skills and (2) advanced clinical procedures. This is a practical course in the six-year MD program. It is integral for the students to have hands-on experience of familiarizing with the advanced clinical skills in different clinical encounters and

explore the broader implications of communication in healthcare. This course will help to develop students' ability to integrate cultural and scientific knowledge from their local context and apply the knowledge to the global community, fostering a holistic approach to patient care. Students will be taught the diverse meanings of health, illness, and medical practices across different cultures and countries, enhancing the cultural competence of healthcare professionals. This course is integral in preparing students for the complexities of clinical practice to ensure that they are adept in effective communication and culturally competent care, with a strong focus on bridging cultural gaps through empathy and understanding.

Infectious Disease

4 credits

This clinical clerkship builds on preclinical Microbiology knowledge, focusing on the clinical aspects of infectious diseases. Students will practice patient assessment, interpret culture results, and apply antibacterial, antiviral, and antifungal therapies through case-based discussions. The "Accessible Antibiotics" lecture series on Canvas is a required prerequisite and provides the foundation for didactic sessions. The rotation aims to strengthen diagnostic reasoning and treatment decision-making in infectious disease care.

Traditional Medicine

2 credits

Traditional Medicine is a core Year 5 clinical rotation that introduces students to the principles and applications of traditional healing practices. The course covers basic diagnostic methods and treatments, including herbal, pharmacological, and non-pharmacological approaches such as acupuncture, cupping, and moxibustion. Students will develop differential diagnosis skills and explore the integration of traditional and Western medicine through clinical practice, didactic sessions, and field visits, with a focus on the role of traditional medicine in Vietnam's healthcare system.

Tuberculosis

2 credits

This course provides an overview of the diagnosis, treatment, and prevention of tuberculosis. Students will learn to take patient histories, perform physical exams, understand TB pathophysiology, and recognize both pulmonary and extrapulmonary TB presentations. The course includes two main components: didactic sessions and clinical practice.

Dermatology

2 credits

This course introduces students to the diagnosis and management of common skin, hair, nail, and gland disorders. It covers neoplastic, inflammatory, autoimmune, and systemic-related dermatologic conditions through clinical exposure and guided learning.

Oncology/Hematology

4 credits

The course provides students with clinical exposure to the diagnosis and management of cancer and blood disorders. Students will engage in both observation and supervised patient care, focusing on diagnostic workup, disease staging, and the use of genetic markers in treatment planning. The rotation also introduces therapeutic approaches including surgery, chemotherapy, radiation, immunotherapy, and targeted therapies.

Community Medicine/Family Practice

6 credits

This rotation emphasizes primary care in community settings. Students will participate in both observation and supervised patient care, focusing on common outpatient conditions, health promotion, disease prevention, and continuity of care across all age groups.

Emergency Medicine

2 credits

This course provides an overview of the clinical presentation, initial diagnosis, and early management of common life-threatening emergencies encountered in adult patients in the Emergency Department and Intensive Care Unit.

4.2.4. Electives Courses

Dental Stomatology Elective

2 credits

This course equips primary care providers with essential knowledge on the connection between oral health and overall health. Through brief online modules, it explores how medical conditions and medications impact oral health and highlights the importance of integrating oral health assessments and referrals into routine care. Learners will gain skills in identifying common oral conditions such as dental caries,

periodontal disease, and oral cancers, with a focus on improving interdisciplinary care and reducing healthcare disparities.

Ear - Nose - Throat (ENT) Elective

2 credits

This elective course in Ear, Nose, and Throat (ENT) is designed for fifth-year MD students to deepen their knowledge and skills in diagnosing, treating, and managing disorders of the ear, nose, throat, head, and neck. Building upon the foundational concepts learned in earlier years of medical school, this course focuses on enhancing clinical expertise in the ENT specialty. Students will gain hands-on experience in advanced diagnostic and treatment techniques, preparing them for future clinical practice

Ophthalmology Elective

2 credits

This course provides a thorough introduction to essential ophthalmic topics, covering eye anatomy, refractive errors, cataracts, and ocular emergencies. Participants will learn how to perform detailed ocular histories and examinations, identify signs of systemic diseases, and understand the importance of timely referrals. By the end of the course, attendees will be proficient in diagnosing and managing both common and critical eye conditions, improving their clinical skills and patient care.

Introduction to Rehabilitation Elective

2 credits

This course focuses on providing comprehensive care for individuals with disabilities, improving their independence and quality of life. Students will gain hands-on experience in managing conditions like spinal cord injuries, brain injuries, strokes, and orthopedic issues through direct care and supervised observation. The curriculum covers neurological and musculoskeletal rehabilitation, including assessment, diagnosis, management, and the psychological and social aspects of patient care. By the end of the clerkship, students will be equipped to contribute effectively to improving patients' functional independence.

Forensic Medicine Elective

2 credits

The Forensic Medicine elective aims to introduce students to the fundamental concepts of forensic medicine and the connection between medicine and law. During this two-week course in Year 5, students will learn the basics of forensic examinations, the legal aspects of medical practice, and how to recognize physiological changes and injuries on the body before and after death. The course includes interactive presentations, reading scientific materials, group discussions, and analysis of real-life forensic cases. It is

designed for students interested in understanding the practice of forensic medicine and its relationship with law.

Radiology/Nuclear Medicine Elective

2 credits

This elective course, designed for mid-clerkship students, offers advanced opportunities to expand their knowledge and skills in radiology. Building on foundational principles, students will deepen their understanding and explore advanced radiology concepts, preparing for future practice and postgraduate training in the field. Students will be paired with a resident or faculty member during weekly rotations and participate in read-outs with attending radiologists. The course covers radiologic anatomy, appropriate study selection for disease diagnosis, and the basics of radiologic reporting and dictation. Students can also tailor rotations to specific radiology interests, such as ultrasound, mammography, interventional radiology, and nuclear medicine.

Anesthesia Elective

2 credits

This elective course aims to introduce students to essential aspects of anesthesiology that every physician should understand. Through an intensive one-on-one experience with dedicated instructors, students will learn about preoperative evaluation, risk stratification, and surgical patient preparation. The course covers basic respiratory and cardiac physiology, the effects of anesthetic agents on the cardiovascular system, standard physiological monitoring, postoperative pain management, and basic ventilator management. This elective is open to Year 5 students and those participating in the 1-2 week(s) perioperative medicine selective during Year 6 Sub-internship in Surgery.

Palliative Care Elective

2 credits

This elective course offers fifth-year MD students an introduction to Palliative Care Medicine. The course covers the principles and practices of caring for patients with life-limiting illnesses, focusing on managing complex symptoms like pain, providing psychosocial support, and addressing ethical issues in end-of-life care.

Sleep Medicine Elective

2 credits

This course provides students with an introduction to the principles and practices of sleep medicine. This course covers the basics of diagnosing and treating sleep disorders, including the use of continuous positive airway pressure (CPAP) and both nonpharmacological and pharmacological treatment options. The curriculum emphasizes developing differential diagnosis skills through understanding physiology,

pathophysiology, clinical symptoms, history taking, and physical examination within the context of sleep medicine.

Urology Elective

2 credits

This elective course provides a comprehensive understanding of urological disorders, diagnostics, treatment options, and surgical techniques. This course equips students with the knowledge and skills to diagnose and manage conditions affecting the urinary tract and male reproductive system in both male and female patients across various age groups. Through direct care and supervised observation, students will learn urological techniques and interdisciplinary collaboration. The curriculum focuses on clinical symptoms, diagnosis, and management of urological cases, helping students develop skills in assessment, surgery planning, and personalized patient care. By the end of the clerkship, students will have a solid foundation in urology and be prepared to work collaboratively in multidisciplinary care teams.

Neurosurgery Elective

2 credits

This elective course provides MD students with a comprehensive understanding of the principles and practical skills needed for diagnosing, treating, and managing neurosurgical conditions. Focusing on disorders of the brain, spinal cord, and peripheral nerves, the course combines didactic lectures, interactive discussions, case-based learning, laboratory sessions, clinical rotations, and observation of neurosurgical procedures. Students will also engage in hands-on activities, simulation exercises, and research projects related to neurosurgery.

Plastic Surgery Elective

2 credits

This elective course offers fifth-year MD students an introduction to Plastic Surgery, focusing on both reconstructive and cosmetic procedures. The course aims to enhance students' knowledge and clinical skills in assessing, diagnosing, and managing conditions that require plastic surgical intervention. Through clinical rotations, students will gain hands-on experience and learn the principles and techniques used in plastic surgery.

Medical Genetics and Genomics Elective

2 credits

This course bridges foundational knowledge of genetics with clinical application through immersive experiences in genetics clinics and multidisciplinary healthcare settings. Students will gain practical skills in genetic diagnostics, counselling, and personalized medicine across areas such as cancer genetics, neurogenetics, and rare disease management. The course emphasizes the growing role of genomics in

modern healthcare and prepares students to integrate genetics into clinical decision-making with professionalism and ethical awareness.

Advanced Research Elective

2 to 4 credits

This research elective involves a medical student collaborating with a faculty member on a research project. To receive credit, students must get approval for the project at least two weeks before the course start date. The proposed research electives must be reviewed and approved by the faculty course instructor and the appropriate education leader (e.g., Program Director, Chair of Academic Year, or Vice Dean for Medical Education) before being added to the student's schedule. Students are required to submit their research request via Canvas (to be updated).

Mental Health Elective (outpatient)

4 credits

This elective course offers fifth-year MD students an in-depth exploration of Mental Health, focusing on the diagnosis, treatment, and management of psychiatric disorders in outpatient settings for adults, adolescents, and children. The course aims to enhance students' clinical skills and knowledge in mental health care, offering hands-on experience through clinical rotations, case studies, and interdisciplinary collaboration.

Pediatrics Elective (outpatient)

4 credits

This elective course offers students a broad-based experience in caring for pediatric patients in a clinic setting, with a focus on preventive medicine, postnatal infant care, and nutrition. Under the supervision of a pediatric preceptor, students will develop clinical, procedural, and communication skills. Core topics in outpatient pediatrics will be explored through patient-centered learning and real-world clinical encounters.

OB-GYN Elective (outpatient)

4 credits

This elective course introduces fifth-year MD students to key aspects of obstetrics and gynecology that are essential for all physicians. Through hands-on experiences with dedicated educators, students will gain knowledge and skills in performing OB-GYN examinations, understanding gynecological and obstetric ultrasound, and learning the basics of prenatal screening and diagnosis. This course also covers the principles of infertility diagnosis and treatment, including training in assisted reproductive procedures.

Orthopedics & Rehabilitation Elective

4 credits

This elective course offers fifth-year MD students a comprehensive introduction to Orthopedics, focusing on the diagnosis, management, and treatment of musculoskeletal conditions. Students will gain hands-on clinical experience and develop skills in both surgical and non-surgical (including rehabilitation) approaches to orthopedic care.

Cardiovascular Surgery Elective

4 credits

This elective course provides fifth-year MD students with an in-depth introduction to Cardiac and Vascular Surgery. It focuses on the diagnosis, treatment, and management of cardiovascular diseases, combining clinical rotations with exposure to specialized surgical procedures and aims to strengthen students' clinical knowledge and hands-on skills in the field of cardiovascular care.

Thoracic Surgery Elective

4 credits

This elective course offers fifth-year MD students comprehensive exposure to Thoracic Surgery, emphasizing preoperative and postoperative care, as well as active participation in surgical procedures. Students will manage cases involving lung, mediastinal, and thyroid conditions, many of which present complex diagnostic and therapeutic challenges. The course includes faculty-led conferences and may offer opportunities for students to present clinical cases, strengthening both their clinical understanding and communication skills in thoracic surgery.

Critical Care Elective

3 credits

This elective course offers fifth-year MD students essential exposure to Critical Care Medicine. Through hands-on experience in the ICU and related settings, students will develop skills in assessing, diagnosing, and managing life-threatening conditions, gaining a deeper understanding of the clinical care of critically ill patients.

Advanced ENT Elective

3 credits

This elective course provides fifth-year MD students with in-depth exposure to Otolaryngology, ideal for those pursuing the specialty or seeking to strengthen their clinical skills in ENT care. Students will engage in diagnosing and managing conditions in otology, rhinology, laryngology, and head and neck oncology

through active participation in both outpatient and inpatient settings, with opportunities for procedural and operative experience.

Advanced Ophthalmology Elective

3 credits

This elective course offers fifth-year MD students the opportunity to deepen their clinical skills in Ophthalmology, whether pursuing the specialty or exploring eye care further. The course includes exposure to subspecialties such as cornea, glaucoma, and retinal diseases. Students will actively participate in both outpatient and inpatient care, with hands-on opportunities in procedures and surgeries.

Anatomic Pathology & Laboratory Medicine Elective

3 credits

This elective course offers mid-clerkship students a chance to deepen their understanding of pathology by building on foundational knowledge and exploring advanced concepts. It aims to refine clinical reasoning skills and support students interested in pursuing further training or a career in pathology.

Allergy, Immunology & Rheumatology Elective

3 credits

This elective course offers students hands-on experience in diagnosing and managing common conditions in both adults and children. Students will work closely with faculty in the ambulatory clinic, participate in musculoskeletal ultrasound, attend division conferences, and engage in self-study using Osmosis. This course enhances clinical skills, critical thinking, and provides opportunities for research in immunology, preparing students for further specialization and career development in these fields.

Away Elective/Self-designed Elective

2 or 4 credits

This course offers fifth-year MD students the chance to design a personalized learning experience aligned with their individual interests and career aspirations. It enables students to delve deeply into a particular medical specialty or acquire unique clinical experiences beyond the standard curriculum. Students can pursue this elective at either a global or local institution outside of VINUNI and its affiliated hospitals.

4.2.5. Scholarly Project

Scholarly Project

2.5 credits

The three courses "Scholarly Project 1, 2, and 3" provide an opportunity to work on a research project. A scholarly project may involve basic, clinical, or library research and leads to the development of a report that summarizes the project background, research questions, methodology, results, and discussion-conclusion.

4.2.6. Graduation Module

Transition to Clinical Practice

2 credits

This course is designed to equip medical students with essential knowledge and skills to navigate the crucial transition of medical students into competent and resilient junior doctors. Through a series of engaging workshops and discussions, students will explore key aspects of professional development, patient care, teamwork, and personal well-being in the medical field. The course integrates theoretical learning with practical insights shared by experienced residents and alumni, fostering a holistic understanding of the challenges and rewards of becoming a physician. A significant portion of the course is dedicated to reinforcing learning through structured coaching and self-revision activities focused on the systematization of biomedical, clinical, and social-behavioral sciences into clinical reasoning and application of evidence-based methodologies in diagnosis, management, and preventive care.

Introduction to Clinical Medicine 5

2 credits

This is part of the clinical graduation requirement in the MD program. The course focuses on preparing students for real-world clinical environments by advancing their knowledge, skills, and professional behavior. Through hands-on experiences and simulations, students will systemize medical knowledge to diagnose and manage common acute conditions, perform essential procedures accurately and in a timely manner during emergency situations, and apply patient safety principles and evidence-based practices in clinical decision-making. The course also emphasizes professionalism, ethical conduct, empathetic communication, interprofessional collaboration, and advocacy to improve patient care and healthcare system performance.