

MD1 - MEDICAL SCHOOL: YEAR 1

MD1 5001 Human Body Foundations I Cr. 10

Human Body Foundations I is the first of a 3-part course series in the basic sciences that engages medical students with knowledge of the normal structure and function of the human body, prepares them for the study of human disease, sets the stage for success on the USMLE Step I exam, and provides the scaffolding on which the clerkship curriculum is built. Part I emphasizes fundamental principles in biochemistry, cell biology, embryology, histology, genetics, physiology, and pharmacology, and introduces students to the anatomical investigation of tissues and organs through full-body cadaver dissection beginning with the Musculoskeletal System. Offered Yearly.

MD1 5002 Human Body Foundations II Cr. 10

Human Body Foundations II is the second of a 3-part course series in the basic sciences that engages medical students with knowledge of the normal structure and function of the human body, prepares them for the study of human disease, sets the stage for success on the USMLE Step I exam, and provides the scaffolding on which the clerkship curriculum is built. Part II focuses on three organ systems of the body: Cardiovascular/Respiratory, Renal/Urinary, and Gastrointestinal, emphasizing fundamental principles of physiology, histology, biochemistry, pharmacology, genetics, and embryology, as well as anatomical study through full-body cadaver dissection of the visceral systems. Offered Yearly.

MD1 5003 Human Body Foundations III Cr. 10

Human Body Foundations III is the last of a 3-part course series in the basic sciences that engages medical students with knowledge of the normal structure and function of the human body, prepares them for the study of human disease, sets the stage for success on the USMLE Step I exam, and provides the scaffolding on which the clerkship curriculum is built. Part III focuses on the Reproductive & Endocrine Systems and the Central Nervous System and emphasizes fundamental principles of neuroscience, physiology, histology, embryology, genetics, biochemistry, and pharmacology. The sequence of full-body cadaver dissection is brought to a close with the anatomical investigation of pelvic and head & neck regions. Offered Yearly.

MD1 5101 Clinical Skills 1A Cr. 1

This course is designed to allow students to develop and demonstrate foundational knowledge and basic clinical skills in history-taking, patient examination, oral case presentation, clinical reasoning and performance of procedures required to participate in clinical service-learning activities. Students will be introduced to advanced skills in patient interviewing and physical examination emphasizing a patient-centered, empathic and compassionate approach, incorporating the patient's perspective, socioeconomic background and cultural intelligence, and protection of patient privacy required to participate in early clinical experiences. Students will be introduced to basic clinical reasoning concepts. Offered Yearly.

Restriction(s): Enrollment limited to students with a class of Med First Year.

MD1 5102 Clinical Skills 1B Cr. 1

In this course, learners will continue to develop and demonstrate foundational knowledge and basic clinical skills in history-taking, patient examination, oral case presentation, clinical reasoning and performance of procedures required to participate in clinical service-learning activities. Students will practice advanced skills in patient interviewing and physical examination emphasizing a patient-centered, empathic and compassionate approach, incorporating the patient's perspective, socioeconomic background and cultural intelligence, and protection of patient privacy required to participate in early clinical experiences. Students will practice basic clinical reasoning skills. Offered Yearly.

Prerequisite: MD1 5101

Restriction(s): Enrollment limited to students with a class of Med First Year.

MD1 5103 Clinical Skills 1C Cr. 1

In this course, learners will demonstrate mastery of foundational knowledge and basic clinical skills in history-taking, patient examination, oral case presentation, clinical reasoning and performance of procedures required to participate in clinical service-learning activities. Students will continue to develop advanced skills in patient interviewing and physical examination emphasizing a patient-centered, empathic and compassionate approach, incorporating the patient's perspective, socioeconomic background and cultural intelligence, and protection of patient privacy required to participate in early clinical experiences. Students will refine basic clinical reasoning skills. Offered Yearly.

Prerequisite: MD1 5102

Restriction(s): Enrollment limited to students with a class of Med First Year.

MD1 5201 Population, Patient, Physician and Professionalism (P4) 1A Cr. 1

Provides the opportunity to learn, practice, and apply knowledge and skills as a physician-in-training in diverse urban clinical and community outreach settings. Using a variety of methods, including clinical/ community engagement, students engage in activities demonstrating the interconnectedness of the population, patient, and physician. P4 also emphasizes the need for students to develop their professional identity by behaving professionally and demonstrating respect to their colleagues, faculty, and patients and their families. By exploring sensitive topics and communicating with a diverse population, students' attitudes, as well as knowledge and skills, will be developed with a concentrated focus on understanding the patient's perspective, leading to true patient-centered care. Students will become effective team members, learn evidence-based theories to reduce healthcare disparities, recognize their own professional identity formation, and develop self-directed learning habits. Offered Yearly.

Restriction(s): Enrollment limited to students with a class of Med First Year.

MD1 5202 Population, Patient, Physician and Professionalism (P4) 1B Cr. 1

Provides the opportunity to learn, practice, and apply knowledge and skills as a physician-in-training in diverse urban clinical and community outreach settings. Using a variety of methods, including clinical/community engagement, students engage in activities demonstrating the interconnectedness of the population, patient, and physician. P4 also emphasizes the need for students to develop their professional identity by behaving professionally and demonstrating respect to their colleagues, faculty, and patients and their families. By exploring sensitive topics and communicating with a diverse population, students' attitudes, as well as knowledge and skills, will be developed with a concentrated focus on understanding the patient's perspective, leading to true patient-centered care. Students will become effective team members, learn evidence-based theories to reduce healthcare disparities, recognize their own professional identity formation, and develop self-directed learning habits. Offered Yearly.

Prerequisite: MD1 5201

Restriction(s): Enrollment limited to students with a class of Med First Year.

MD1 5203 Population, Patient, Physician and Professionalism (P4) 1C Cr. 1

Provides the opportunity to learn, practice, and apply knowledge and skills as a physician-in-training in diverse urban clinical and community outreach settings. Using a variety of methods, including clinical/community engagement, students engage in activities demonstrating the interconnectedness of the population, patient, and physician. P4 also emphasizes the need for students to develop their professional identity by behaving professionally and demonstrating respect to their colleagues, faculty, and patients and their families. By exploring sensitive topics and communicating with a diverse population, students' attitudes, as well as knowledge and skills, will be developed with a concentrated focus on understanding the patient's perspective, leading to true patient-centered care. Students will become effective team members, learn evidence-based theories to reduce healthcare disparities, recognize their own professional identity formation, and develop self-directed learning habits. Offered Yearly.

Prerequisite: MD2 5202

Restriction(s): Enrollment limited to students with a class of Med First Year.

MD1 5301 Service Learning 1-A Cr. 0

Provides students the opportunity to learn, practice, and apply knowledge and skills as a physician-in-training in diverse urban clinical and community outreach settings. Through large group sessions, small group sessions, online modules, self-directed reflective assignments, and clinical and community engagement, students will actively participate in activities demonstrating the interconnectedness of the population, patient, and physician. The course also emphasizes the need for students to quickly develop their professional identity as a physician-in-training by behaving professionally and demonstrating respect to their colleagues, faculty, patients and their families. By engaging early with patients and potential patients, students' attitudes, as well as knowledge and skills, will be developed with a concentrated focus on understanding the patient's perspective, leading to true patient-centered care. Offered Yearly.

MD1 5302 Service Learning 1-B Cr. 0

Provides students the opportunity to learn, practice, and apply knowledge and skills as a physician-in-training in diverse urban clinical and community outreach settings. Through large group sessions, small group sessions, online modules, self-directed reflective assignments, and clinical and community engagement, students will actively participate in activities demonstrating the interconnectedness of the population, patient, and physician. The course also emphasizes the need for students to quickly develop their professional identity as a physician-in-training by behaving professionally and demonstrating respect to their colleagues, faculty, patients and their families. By engaging early with patients and potential patients, students' attitudes, as well as knowledge and skills, will be developed with a concentrated focus on understanding the patient's perspective, leading to true patient-centered care. Offered Yearly.

MD1 5303 Service Learning 1-C Cr. 0

Provides students the opportunity to learn, practice, and apply knowledge and skills as a physician-in-training in diverse urban clinical and community outreach settings. Through large group sessions, small group sessions, online modules, self-directed reflective assignments, and clinical and community engagement, students will actively participate in activities demonstrating the interconnectedness of the population, patient, and physician. The course also emphasizes the need for students to quickly develop their professional identity as a physician-in-training by behaving professionally and demonstrating respect to their colleagues, faculty, patients and their families. By engaging early with patients and potential patients, students' attitudes, as well as knowledge and skills, will be developed with a concentrated focus on understanding the patient's perspective, leading to true patient-centered care. Offered Yearly.

MD1 5401 Wayne Trained and Coaching Professional Development A Cr. 1

Wayne Trained and Coaching Professional Development is a 1 credit course at Wayne State University School of Medicine designed to foster personal and professional growth through the Master Adaptive Learner (MAL) framework. Students engage in coaching, mentoring, and advising across areas like health, wellness, career planning, and academic support. Anchored by revitalized Warrior MD Houses, the course creates vibrant learning communities and consistent touchpoints, including "Wayne Trained" clinical scenarios that enhance reasoning and professionalism. The course emphasizes metacognitive skills, adaptability, and WSUSOM's 16 Principles of Professional Identity. Offered Yearly.

MD1 5402 Wayne Trained and Coaching Professional Development B Cr. 1

Wayne Trained and Coaching Professional Development is a 1 credit course at Wayne State University School of Medicine designed to foster personal and professional growth through the Master Adaptive Learner (MAL) framework. Students engage in coaching, mentoring, and advising across areas like health, wellness, career planning, and academic support. Anchored by revitalized Warrior MD Houses, the course creates vibrant learning communities and consistent touchpoints, including "Wayne Trained" clinical scenarios that enhance reasoning and professionalism. The course emphasizes metacognitive skills, adaptability, and WSUSOM's 16 Principles of Professional Identity. Offered Yearly.

MD1 5511 Community Engagement Elective 1A Cr. 2

Provides students with an opportunity to explore and understand the experience of under-served patients as they navigate community health services in Southeast Michigan. Medical students interact with patients or participants and staff to learn the circumstances and challenges faced with limited resources, to foster empathy, compassion, respect and humanistic care. Meeting with agency leaders and staff students learn about program design, administration and operation through outreach and mentoring volunteering. Offered Yearly.

Restriction(s): Enrollment limited to students with a class of Med First Year.

MD1 5512 Community Engagement Elective 1B Cr. 3

Provides students with an opportunity to explore and understand the experience of under-served patients as they navigate community health services in Southeast Michigan. Medical students interact with patients or participants and staff to learn the circumstances and challenges faced with limited resources, to foster empathy, compassion, respect and humanistic care. Meeting with agency leaders and staff students learn about program design, administration and operation through outreach and mentoring volunteering. Offered Yearly.

Prerequisite: MD1 5511

Restriction(s): Enrollment limited to students with a class of Med First Year.

MD1 5521 Medical Education Research Elective 1A Cr. 2

Society places a large emphasis on education yet understanding the basic science of teaching and learning is neglected. That is, research exploring the effectiveness of curriculum, teaching, and learning strategies on student outcomes has not been a priority in medical education. To train students and residents for the practice of medicine in the 21st century, we must continue to be innovative in our curriculum and teaching, stay current with new technology, and be able to demonstrate the effectiveness of our programs through the practice of medical education research. To address this issue the Wayne State University School of Medicine has developed a medical education research course. The purpose of this course is to introduce undergraduate medical students to the field of medical education research and to have them participate in medical education research activities. Offered Yearly.

Restriction(s): Enrollment limited to students with a class of Med First Year.

MD1 5522 Medical Education Research Elective 1B Cr. 3

Society places a large emphasis on education yet understanding the basic science of teaching and learning is neglected. That is, research exploring the effectiveness of curriculum, teaching, and learning strategies on student outcomes has not been a priority in medical education. To train students and residents for the practice of medicine in the 21st century, we must continue to be innovative in our curriculum and teaching, stay current with new technology, and be able to demonstrate the effectiveness of our programs through the practice of medical education research. To address this issue the Wayne State University School of Medicine has developed a medical education research course. The purpose of this course is to introduce undergraduate medical students to the field of medical education research and to have them participate in medical education research activities. Offered Yearly.

Prerequisite: MD1 5521

Restriction(s): Enrollment limited to students with a class of Med First Year.

MD1 5531 Leadership and External Affairs Development (LEAD)/Medical Political Action (MPAC) Elective 1A Cr. 2

The MPAC program elective provides students with an opportunity to learn, practice and apply knowledge and skills as physician healthcare leaders and advocates. Students will learn how to engage in advocacy to improve healthcare for patients and communities and to improve the health systems where they deliver care. Working with organized medicine, students will author solutions and meet with governmental leaders to present and advocate for reforms and improvements to the delivery of care. Students will learn about the use of media as a tool for advocacy and learn about philanthropy as it relates to healthcare. The program also serves as a primer on leadership development topics, by emphasizing the need for students to develop their professional identity by dressing professionally, arriving on time, and behaving professionally and demonstrating respect to their patients, peers, colleagues, supervisors, and others and by maintaining professional conduct and composure when conflict occurs. Offered Yearly.

Restriction(s): Enrollment limited to students with a class of Med First Year.

MD1 5532 Leadership and External Affairs Development (LEAD)/Medical Political Action (MPAC) Elective 1B Cr. 3

The MPAC elective provides students with an opportunity to learn, practice and apply knowledge and skills as physician healthcare leaders and advocates. Students will learn how to engage in advocacy to improve healthcare for patients and communities and to improve the health systems where they deliver care. Working with organized medicine, students will author solutions and meet with governmental leaders to present and advocate for reforms and improvements to the delivery of care. Students will learn about the use of media as a tool for advocacy and learn about philanthropy as it relates to healthcare. The program also serves as a primer on leadership development topics, by emphasizing the need for students to develop their professional identity by dressing professionally, arriving on time, and behaving professionally and demonstrating respect to their patients, peers, colleagues, supervisors, and others and by maintaining professional conduct and composure when conflict occurs. Offered Yearly.

Prerequisite: MD1 5531

Restriction(s): Enrollment limited to students with a class of Med First Year.

MD1 5541 Research Elective 1A Cr. 2

The ability to conduct and understand medical research is a valuable skill for any physician, since it has been the origin of many current treatments and procedures. Medical research goes far beyond the performance of experiments and collection of data. Research also involves the ability to critically read pertinent scientific literature and to develop hypotheses based on that reading. In addition, a researcher must design experiments to test hypotheses, analyze and critically evaluate resultant data, interpret results, and clearly present the findings. This course is designed to facilitate selection of a research mentor and to begin development of skills necessary to perform research. In this course, students will specifically learn to: 1) interact effectively and professionally with potential mentors, 2) critically read, evaluate, and discuss scientific literature at a level appropriate for a beginning research student, and 3) work professionally and efficiently as part of a team. Offered Yearly.

Restriction(s): Enrollment limited to students with a class of Med First Year.

MD1 5542 Research Elective 1B Cr. 3

The ability to conduct and understand medical research is a valuable skill for any physician, since it has been the origin of many current treatments and procedures. Medical research goes far beyond the performance of experiments and collection of data. Research also involves the ability to critically read pertinent scientific literature and to develop hypotheses based on that reading. In addition, a researcher must design experiments to test hypotheses, analyze and critically evaluate resultant data, interpret results, and clearly present the findings. This course is designed to facilitate selection of a research mentor and to begin development of skills necessary to perform research. In this course, students will specifically learn to: 1) interact effectively and professionally with potential mentors, 2) critically read, evaluate, and discuss scientific literature at a level appropriate for a beginning research student, and 3) work professionally and efficiently as part of a team. Offered Yearly.

Prerequisite: MD1 5541

Restriction(s): Enrollment limited to students with a class of Med First Year.

MD1 5551 Medical Quality Improvement Elective 1A Cr. 2

Continuous quality improvement, or CQI, is a philosophy that organizations use to reduce waste, increase efficiency, and increase employee and customer satisfaction. It is an ongoing process that evaluates how an organization works and ways to improve its processes. When organizations focus on quality improvement, they can create significant positive change with the workforce, eliminate injuries that save patient lives, and reduce operating costs in hospitals and medical facilities. This course aims to introduce undergraduate medical students to the field of medical quality improvement, patient safety, and organizational leadership. Offered Yearly.

Restriction(s): Enrollment limited to students with a class of Med First Year.

MD1 5552 Medical Quality Improvement Elective 1B Cr. 3

Continuous quality improvement, or CQI, is a philosophy that organizations use to reduce waste, increase efficiency, and increase employee and customer satisfaction. It is an ongoing process that evaluates how an organization works and ways to improve its processes. When organizations focus on quality improvement, they can create significant positive change with the workforce, eliminate injuries that save patient lives, and reduce operating costs in hospitals and medical facilities. This course aims to introduce undergraduate medical students to the field of medical quality improvement, patient safety, and organizational leadership. Offered Yearly.

Prerequisite: MD1 5551

Restriction(s): Enrollment limited to students with a class of Med First Year.

MD1 5800 Directed Study Cr. 1-12

Individualized curriculum designed to enhance knowledge and skills in preparation for the next phase of medical school. Offered Yearly.

Restriction(s): Enrollment limited to students with a class of Med First Year or Med Second Year; enrollment is limited to students with a major in Medicine; enrollment is limited to Medical level students; enrollment limited to students in the School of Medicine.

MD1 5911 Business of Medicine Elective 1A: Introduction to the Healthcare Ecosystem Cr. 3

This course creates a setting for 1st year medical students to explore various aspects of the business of medicine to gain insights into how they can affect the future of healthcare. Healthcare expenditures flow across intersections between patients and individuals/institutions that provide healthcare services. The flow of funds and clinical experience is impacted by those that purchase/finance healthcare, offer insurance and handle reimbursement, and those that design, produce, and distribute pharmaceuticals, medical technologies and devices, information systems and analytic services. This complex ecosystem affects access, cost, and quality of care. The quest for improved access and patient outcomes and cost containment is fueling changes across the healthcare landscape. Students will examine these changes and develop a multidisciplinary perspective by learning from individuals and organizations affecting the rate and flow of care, services, information and money in the health system. Offered Yearly.

Restriction(s): Enrollment limited to students with a class of Med First Year.

MD1 5912 Business of Medicine Elective 1B: Healthcare Ecosystem Explorations Cr. 3

The purpose of this course is to create a setting where 1st year medical students can gain confidence and experience interacting with subject matter experts operating throughout the healthcare ecosystem, and students delve deeper into various dimensions of this ecosystem via student-led panel discussions and team-level activities and discussions. Students explore current and emerging policies and practices in the drive toward improved access and patient outcomes and cost containment. Students further develop a multidisciplinary perspective by learning from the individuals and organizations affecting the rate and flow of care, services, products, information, and money within the healthcare system. In-class activities are augmented with required fieldwork. Offered Yearly.

Prerequisite: MD1 5911

Restriction(s): Enrollment limited to students with a class of Med First Year.