## Medicine Courses (Carver College of Medicine) (MED)

This is a list of medicine courses. For more information, see Carver College of Medicine.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MED:1100</td>
<td>Introduction to Health Care Professions</td>
<td>3 s.h.</td>
<td>Introduction to current U.S. health care system and changes that are likely in the near future; information about distinct health care professions grouped by discipline (e.g., nursing, pharmacy, public health), and less traditional career pathways in health care fields; how health care professionals across disciplines coordinate to deliver better health care; instruction by prominent health care faculty at the University of Iowa; for students considering a career in the health care field.</td>
</tr>
<tr>
<td>MED:5300</td>
<td>Health Informatics I</td>
<td>3 s.h.</td>
<td>Technological tools that support health care administration, management, and decision making. Same as HMP:5370, IE:5860, IGPI:5200, SLIS:5900.</td>
</tr>
<tr>
<td>MED:8001</td>
<td>Medical Elective</td>
<td>arr.</td>
<td></td>
</tr>
<tr>
<td>MED:8003</td>
<td>Clinical Clerkships</td>
<td>arr.</td>
<td></td>
</tr>
<tr>
<td>MED:8005</td>
<td>Medical Student Research Fellowships</td>
<td>0 s.h.</td>
<td></td>
</tr>
<tr>
<td>MED:8010</td>
<td>Introduction to Medical Education at Iowa</td>
<td>0 s.h.</td>
<td>Introduction to first-year fall courses; advanced concepts in anatomy, biochemistry, cell biology, and clinical reasoning skills; for M.D. students.</td>
</tr>
<tr>
<td>MED:8021</td>
<td>Community Health Outreach I</td>
<td>0-1 s.h.</td>
<td>Presentations and practical experience working with agencies that provide health care and wellness promotion to communities; substance abuse; child, adolescent, and adult health; aging; interpersonal violence; homelessness.</td>
</tr>
<tr>
<td>MED:8022</td>
<td>Community Health Outreach II</td>
<td>1-2 s.h.</td>
<td>Presentations, patient-based learning groups, readings, and practical experience working with agencies that provide health care and wellness promotion to communities; substance abuse; child, adolescent, and adult health; aging; interpersonal violence; homelessness.</td>
</tr>
<tr>
<td>MED:8023</td>
<td>Community Health Outreach III</td>
<td>1-2 s.h.</td>
<td>Presentations, patient-based learning groups, readings, and practical experience working with agencies that provide health care and wellness promotion to communities; substance abuse; child, adolescent, and adult health; aging; interpersonal violence; homelessness.</td>
</tr>
<tr>
<td>MED:8028</td>
<td>Introduction to U.S. Health Care System</td>
<td>1 s.h.</td>
<td>Structure, function, and finance of U.S. health care system; access, cost, quality, finance mechanisms, reform process.</td>
</tr>
<tr>
<td>MED:8070</td>
<td>The Examined Life: Writing and Medicine</td>
<td>1 s.h.</td>
<td>Literature, essays, poetry; discussion of participants’ writing; students prepare portfolios of their own writing.</td>
</tr>
<tr>
<td>MED:8071</td>
<td>Career Life Planning</td>
<td>1 s.h.</td>
<td>Students' individual interests, values, and decision-making processes important in selecting a specialty, engaging in the match process, and integrating oneself into the medical profession; personal career development, culture and climate in which physicians work and learn.</td>
</tr>
<tr>
<td>MED:8073</td>
<td>Biomedical Innovation</td>
<td>1 s.h.</td>
<td>Introduction to all phases of medical device/technology development; development of knowledge of entire medical innovation process through didactic sessions, faculty, interactions, and interdisciplinary collaboration; interdisciplinary approach; research and development of a novel medical device, therapy, or model of care. Requirements: M.D. enrollment.</td>
</tr>
<tr>
<td>MED:8074</td>
<td>Research Skills Seminar</td>
<td>1 s.h.</td>
<td>Seminar series designed to bridge gap from undergraduate and medical student experiences to research during residency and beyond; topics include identification of projects and mentors, leadership, collaboration, translation, evidence-based medicine, project development, statistical analysis, presentation, publication, and career progression.</td>
</tr>
<tr>
<td>MED:8076</td>
<td>Bioethics and Humanities Seminar</td>
<td>1 s.h.</td>
<td>Broad range of topics in bioethics and medical humanities, including philosophical principles, clinical ethics, research ethics, medical professionalism, narrative ethics, and historical and cultural aspects of medicine. Requirements: enrollment in Carver College of Medicine Humanities Distinction Track.</td>
</tr>
<tr>
<td>MED:8077</td>
<td>Personal-Professional Compass</td>
<td>1 s.h.</td>
<td>Provides help for medical students to understand, articulate, and integrate personal and professional values and goals while making their way through medical school; promote student growth as humanistic professionals through written reflections on personal experience, readings from medicine and the humanities, and discussions with peers and mentors; preparation to write an authentic and compelling personal statement for residency applications. Requirements: M.D. enrollment.</td>
</tr>
<tr>
<td>MED:8081</td>
<td>Global Health Issues I</td>
<td>1 s.h.</td>
<td>Core issues in the current field of global health, including history of global health, health and development, social determinants of health, measuring health and disease, disparities in the American health care system, poverty and health, gender issues and reproductive health, child health, immigrant and migrant health issues, and introduction of major players in global health. Requirements: M.D. enrollment.</td>
</tr>
<tr>
<td>MED:8082</td>
<td>Global Health Issues II</td>
<td>1 s.h.</td>
<td>Core issues in the current field of global health, including health care as a human right, why the Third World is the Third World, communicable disease issues, outbreaks and pandemics, noncommunicable issues, malnutrition and obesity, cultural context of health care, violence as a health issue, and emergency response and transition to development. Prerequisites: MED:8081. Requirements: M.D. enrollment.</td>
</tr>
<tr>
<td>MED:8083</td>
<td>Global Cross-Cultural Elective</td>
<td>arr.</td>
<td>Cross-cultural medical program with focus on health care problems of a domestic or international community; individually arranged.</td>
</tr>
<tr>
<td>MED:8084</td>
<td>Global Health Seminar</td>
<td>1 s.h.</td>
<td>Presentations by faculty members, University special guests, and alumni on their current work in global medicine/global health; implementation of global health concepts. Requirements: M.D. enrollment.</td>
</tr>
</tbody>
</table>
MED:8121 Clinical and Professional Skills I  3 s.h.
Introduction to concepts of clinical reasoning, communication, physical examination, and evidence-based clinical practice; principles of biomedical ethics; early clinical interactions and placement of classroom experiences into context of patient care through the Early Clinical Experiences (ECE) program; interaction with students from other health sciences colleges to explore the interprofessional approach to caring for patients. Requirements: M.D. enrollment.

MED:8122 Medicine and Society I  3 s.h.
Delivery of individual disease prevention/health promotion services; introduction to social determinants of health; influence and impact of culture and community on health care; community resources; application of health and risk assessment to individual patients and self. Requirements: M.D. enrollment.

MED:8123 Foundations of Cellular Life  5 s.h.
Genetics, embryology, molecular biology, biochemistry, cell biology and histology; molecular events required for cellular life; how cells grow and interact to form basic tissues of human body; necessary framework to explore six mechanisms of health and disease. Requirements: M.D. enrollment.

MED:8124 Mechanisms of Health and Disease I  8 s.h.
Normal and healthy processes within and among mechanisms of oxygenation, metabolism, and genetics/development; first in a series on multisystem mechanisms of health and disease. Requirements: M.D. enrollment.

MED:8131 Clinical and Professional Skills II  4 s.h.
Interpersonal skills, lifelong learning, interviewing skills, physical examination skills, ethical issues in patient care, and basic approach to patients in terms of prevention, treatment, and follow-up care. Second in a sequence during preclinical semesters of medical school and continuing as an integrated strand throughout curriculum. Requirements: M.D. enrollment.

MED:8132 Medicine and Society II  4 s.h.
Knowledge and skills related to health promotion and disease prevention from a medicine and society perspective, including impact of behavior, environment, culture, and socioeconomic; identification of major public health problems associated with mechanisms of health and disease. Second in a sequence during preclinical semesters of medical school and continuing as an integrated strand throughout curriculum. Requirements: M.D. enrollment.

MED:8133 Mechanisms of Health and Disease II  7 s.h.
Normal and healthy processes within and among mechanisms of Immunology/Inflammation, locomotion/integument, and neuropsychiatry; second in a series on mechanisms of health and disease. Requirements: M.D. enrollment.

MED:8134 Mechanisms of Health and Disease III  11 s.h.
Abnormalities or disruptions leading to disease within and among mechanisms of oxygenation, metabolism, and genetics/development; third in a series on multisystem mechanisms of health and disease. Requirements: M.D. enrollment.

MED:8199 First-Year Special Study  arr.
First-year special study. Requirements: M.D. enrollment.

MED:8215 Foundations of Clinical Practice IV ICD  arr.
Basic diagnostic considerations in each of medicine’s clinical disciplines, as required of primary care providers. Requirements: second-year M.D. enrollment.

MED:8221 Clinical and Professional Skills III  4 s.h.
Advanced clinical reasoning skills through focused patient encounters and interactions with special patient populations; emphasis on integration and use of concepts for cost conscious, patient-centered, interdisciplinary care. Requirements: M.D. enrollment.

MED:8222 Medicine and Society III  4 s.h.
Health services organization and delivery; emphasis on community dimensions of medical practice and patient safety. Requirements: M.D. enrollment.

MED:8223 Mechanisms of Health and Disease IV  10 s.h.
Abnormalities or disruptions leading to disease within and among mechanisms of immunology/inflammation, locomotion/integument, and neuropsychiatry; fourth in a series on multisystem mechanisms of health and disease. Requirements: M.D. enrollment.

MED:8224 Mechanisms of Health and Disease Keystone  7 s.h.
Transition between classroom instruction in mechanisms of health and disease and clinical practice; foundational information from mechanisms of health and disease sequence approached from perspective of what is commonly encountered in clinics; application of information to making diagnostic and management decisions of common important clinical problems. Requirements: M.D. enrollment.

MED:8299 Second-Year Special Study  arr.
Second-year special study. Requirements: M.D. enrollment.

MED:8300 Clinical Beginnings  1 s.h.
Orientation to third-year clerkships; technical skills, simulated patient activities, competence with the physical exam.

MED:8301 Community-Based Primary Care  arr.
Introduction; clinical activities, work with community agencies and resources, didactic and conferences. Requirements: M.D. enrollment.

MED:8320 Transition to Clerkships  1-2 s.h.
Two weeks of skills training prior to start of core clinical clerkships. Requirements: M.D. or M.P.A.S. enrollment.

MED:8401 Medicine, Literature, and Writing  arr.
Insights, freedom, joy, responsibilities, and challenges of a life in medicine; reading, discussion, individual creative writing.

MED:8403 Teaching Skills for Medical Students  4 s.h.
Practical teaching techniques; opportunity for students to develop teaching skills before they become medical residents.

MED:8404 Advanced Teaching Skills for Medical Students  2 s.h.
Opportunity to expand knowledge and experience in medical education; investigation of medical education in students' specialty of interest through literature research and interaction with faculty; primary focus is to design and successfully complete a faculty approved project. Prerequisites: MED:8403. Requirements: fourth-year M.D. enrollment.

MED:8405 Leadership for Future Physicians  2 s.h.
Formal training in multiple aspects of leadership; offers future leaders in health science specialties an earlier opportunity to consider leadership abilities and perspectives; for fourth-year medical, physician assistant, nursing, pharmacy, public health, and dental students. Requirements: health science enrollment.
MED:8410 Quality Improvement and Patient Safety 2 s.h.
Students work with faculty and staff involved in quality improvement and patient safety (QI/PS) at University of Iowa Hospitals and Clinics (UIHC); readings, didactic sessions, and hands-on activities to advance knowledge and practice of QI/PS in health care; activities include review of ongoing QI/PS projects at UIHC, application of QI/PS methodologies to project development and analysis, individual and team-based simulations, interdisciplinary collaboration and communication, participating in conferences related to QI/PS, and reflecting on these experiences with peers. Same as NURS:3728.

MED:8411 Foundational Science and Drug Therapy 2 s.h.
Advanced medical students partner with advanced pharmacy students and work together to devise evidence-based treatments for patients suffering from common illnesses; foundational science concepts from each student's respective discipline—including mechanisms of health and disease and principles of pharmacokinetics and pharmacodynamics—are used to design and explain proposed treatments; two weeks, case-based.

MED:8412 Improvisation: A Life Skill 4 s.h.
Drawing from interpersonal communication techniques, experiences that help students communicate more empathetically with their patients, patients' families, and other health care team members in order to create a safe and trusting exchange.

MED:8480 Global Health Clerkship arr.
Cross-cultural medical program at an international site; focus on health care problems of a specific community; individual educational objectives set in advance.

MED:8499 Individually Arranged Medicine Elective arr.
Individually arranged elective through the Office of Student Affairs and Curriculum.

MED:9701 Instructional Design and Technology 3 s.h.
Skills and techniques necessary for analysis, design, development, implementation, and evaluation of effective instruction.

MED:9702 Clinical Teaching in Medical Education 3 s.h.
Principles and methods for teaching individuals and small groups in outpatient and inpatient settings. Prerequisites: MED:9701 or PSQF:6205. Recommendations: educational psychology course.

MED:9703 Educational Research and Evaluation 3 s.h.
Research design and program evaluation; approaches relevant to medical education.

MED:9711 Teaching Methods in Medical Education 3 s.h.
Principles and methods for teaching in large and small classrooms. Recommendations: educational psychology course.

MED:9712 Introduction to Educational Measurement in Medical Education 3 s.h.
Classical test theory; overview of medical education assessment methods; practical information for designing and critiquing assessments.

MED:9713 Assessment in Medical Education 3 s.h.
Medical education assessment methods; research methods and literature that support current practices; research project. Prerequisites: MED:9712.

MED:9714 Current Issues in Medical Education 3 s.h.
Selected issues, policies, and research.