Carver College of Medicine Courses (MED)

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

MED:1100 Introduction to Health Care Professions 3 s.h.
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.

MED:3740 End-of-Life Care for Adults and Families 3 s.h.

MED:5300 Health Informatics I 3 s.h.
Technological tools that support health care administration, management, and decision making. Same as HMP:5370, IE:5860, IGP:5200, SLIS:5900.

MED:7215 Foundations of Clinical Practice IV for Physician Assistants arr.
Basic diagnostic considerations in each of medicine's clinical disciplines, as required of primary care providers.

MED:8001 Medical Elective arr.

MED:8003 Clinical Clerkships arr.

MED:8005 Medical Student Research Fellowships 0 s.h.

MED:8006 Doris Duke Clinical Research Fellowship 0 s.h.
Clinical research projects under University of Iowa faculty mentorship. Requirements: leave of absence from Carver College of Medicine.

MED:8010 Introduction to Medical Education at Iowa 0-1 s.h.
Introduction to first-year fall courses; advanced concepts in anatomy, biochemistry, cell biology, and clinical reasoning skills; for M.D. students.

MED:8021 Community Health Outreach I 0-1 s.h.
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.

MED:8022 Community Health Outreach II 1-2 s.h.
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.

MED:8023 Community Health Outreach III 1-2 s.h.
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.

MED:8028 Introduction to U.S. Health Care System 1 s.h.
Structure, function, and finance of U.S. health care system; access, cost, quality, finance mechanisms, reform process.

MED:8040 Teaching of Physical Exam Skills 1-2 s.h.
Components of complete physical exam and educational techniques for teaching such skills: teaching of physical exam components to first-year students. Requirements: fourth-year M.D. enrollment.

MED:8041 Facilitation of Patient-Centered Learning 1-2 s.h.
Experience in facilitating patient-centered learning groups; case discussion, critique of student presentations and assignments, clinical insight, evaluation of student performances.

MED:8070 The Examined Life: Writing and Medicine 1 s.h.
Literature, essays, poetry; discussion of participants' writing; students prepare portfolios of their own writing.

MED:8071 Career Life Planning 1 s.h.
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.

MED:8072 Evidence-Based Medicine for Clinical Medicine 1 s.h.
Evaluation of literature and development of critical thinking skills necessary for evidence-based medical practice.

MED:8073 Biomedical Innovation 1 s.h.
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.

MED:8074 Research Skills Seminar 1 s.h.
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.

MED:8076 Bioethics and Humanities Seminar 1 s.h.
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.

MED:8077 Personal-Professional Compass 1 s.h.
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.
MED:8081 Global Health Issues I 1 s.h.
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.

MED:8082 Global Health Issues II 1 s.h.
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.

MED:8083 Global Cross-Cultural Elective arr.
Cross-cultural medical program with focus on health care problems of a domestic or international community; individually arranged.

MED:8084 Global Health Seminar 1 s.h.
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.

MED:8112 Human Organ Systems 8 s.h.
Microscopic structure and function of major and specialized human organ systems; approach integrating normal microscopic anatomy and human physiology. Requirements: M.D. enrollment.

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:8213 Healthcare Ethics, Law, and Policy 2 s.h.
Ethical and legal aspects of health care delivery.

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. Prerequisites: MED:8115 and MED:8205. 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
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 healthcare; 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:8480 Global Cross-Cultural Clerkship  arr.
Cross-cultural medical program at an international site; focus
on healthcare 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.

MED:9720 Portfolio Project  3 s.h.
Production of individual student portfolios used to integrate
knowledge across courses; capstone activity.

MED:9721 Study in Faculty Development  3 s.h.
Academic credit for approved project or other assigned
activities for students in the Teaching Scholars program.

MED:9722 Independent Study  arr.

MED:9724 Leadership in Medicine  3 s.h.
Introduction to basic leadership and management
theories pertaining to a healthcare setting; focus on the
history of leadership development, various components of
leadership, and how these components can be used to be
a successful leader/administrator. Requirements: Master in
Medical Education degree program enrollment.

MED:9725 Simulation in Medical Education  3 s.h.
Appropriate use of various types of simulation in medical
education; how to design, deliver, and debrief a simulation
activity; literature supporting use of simulation in medical
education. Requirements: Master in Medical Education degree
program enrollment.

MED:9726 Curriculum Development in Medical
Education  3 s.h.
Curriculum development using knowledge and experience
gained from MED:9701, MED:9702, and MED:9711;
identification of an area/topic for creation of curriculum;
conduction of a needs assessment to identify topics
and/or components of curriculum; creation of plan with
curriculum goals, learning objectives, methods for evaluation;
development of preliminary planning and aspects of
implementation and evaluation phases of the model.

MED:9727 Teaching and Assessing Communication
Skills in Medical Education  3 s.h.
Explores broad issues related to both teaching and assessing
clinician-patient communication skills in medical education;
review literature on best practices in clinician-patient
communication and on teaching and/or assessing skills
among medical learners; explore observation and feedback
as key technique in addressing communication skills through
observation of peers and learners; video recording of
interactions with patients.