Carver College of Medicine

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• Boyd Knosp

Associate Dean, Medical Education
• Amal Shibli-Rahhal

Associate Dean, Medical Education and Professional Programs
• David P. Asprey

Associate Dean, Research
• Robert C. Piper

Assistant Deans
• Ken L. Cheney, James Y. Choi, Gregory C. Nelson

Undergraduate majors: medical laboratory science (BS); nuclear medical technology (BS); radiation sciences (BS)

Undergraduate certificate: EMT paramedic program

Professional degrees: MCA; MCN; MD; MM; MPA

Graduate degrees: MA; MME; MS; DPT; PhD

Website: https://medicine.uiowa.edu/

Courses

• Carver College of Medicine Courses [p. 1]
• EMT-Paramedic Program Courses [p. 5]
• Orthoptics Teaching Program Course [p. 5]

Most Carver College of Medicine courses are offered by the college’s departments and programs. They are listed and described in the corresponding General Catalog sections. The college also offers the following nondepartmental courses.

Carver College of Medicine Courses

MED:0006 Summer Health Professions Education Program 0 s.h.
Summer Health Professions Education Program (SHPEP) for students interested in health professional careers. Requirements: Summer Health Professions Education Program enrollment.

MED:1100 Introduction to Health Care Professions3 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.
End-of-life issues in care of adults, older adults, and their families. Same as ASP:3740, NURS:3740.

MED:5416 Foundations in Healthcare Ethics 3 s.h.
Major ethical traditions, ideas, and frameworks that have shaped contemporary approaches to healthcare ethics in morally pluralistic Western cultures; four prominent frameworks in healthcare ethics include virtue based, principle based, circumstance based, and consequence based that emphasize four aspects of ethical decision-making—agent, action, context, and outcome.

MED:8001 Medical Elective arr.
MED:8003 Clinical Clerkships arr.
MED:8005 Medical Student Research Fellowships 0 s.h.
MED:8010 Introduction to Medical Education at Iowa 0 s.h.
Introduction to first-year fall courses; advanced concepts in anatomy, biochemistry, cell biology, and clinical reasoning skills; for MD 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:8029 Disruptive Forces in Medicine 1 s.h.
Exploration of the pathogenesis of COVID-19 and its impact on medicine at University of Iowa Health Care; students gain perspective and knowledge about the virus, its impact on medical practice, and future consequences; mechanisms of COVID-19 pathogenesis; racial and social inequities highlighted by the pandemic; insight into clinical challenges (i.e., telemedicine); best practices for patient education and clinician safety in different fields. Requirements: MD enrollment.

MED:8031 Reproductive and Gynecological Health Seminar 1 s.h.
Education on reproductive and gynecological health topics, service opportunities, and mentorship. Requirements: MD standing.

MED:8033 Clinical Skills for Responding to Sexual Violence 1 s.h.
Training that focuses specifically on epidemiology, screening, clinical presentation, initial evaluation, and medical management of sexual violence and interpersonal violence victimization; opportunity to apply preclinical and/or concurrent coursework to true-to-reality, clinically relevant, and medically complex health problems with sexual violence as the underlying cause; development of communication and clinical skills necessary to address sexual and interpersonal violence in a clinical setting. Requirements: MD standing or physician assistant standing or enrollment in degree-seeking graduate or health professional program.

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: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: MD enrollment.

MED:8074 Research Skills Seminar 1 s.h.
Seminars 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: MD 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: MD 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: MD 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: MD 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: MD enrollment.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MED:8122</td>
<td>Medicine and Society I</td>
<td>3 s.h.</td>
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<td>MED:8123</td>
<td>Foundations of Cellular Life</td>
<td>5 s.h.</td>
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<td>MED:8124</td>
<td>Mechanisms of Health and Disease I</td>
<td>8 s.h.</td>
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<td>MED:8131</td>
<td>Clinical and Professional Skills II</td>
<td>4 s.h.</td>
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<td>MED:8132</td>
<td>Medicine and Society II</td>
<td>4 s.h.</td>
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<tr>
<td>MED:8133</td>
<td>Mechanisms of Health and Disease II</td>
<td>7 s.h.</td>
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<tr>
<td>MED:8134</td>
<td>Mechanisms of Health and Disease III</td>
<td>11 s.h.</td>
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<tr>
<td>MED:8199</td>
<td>First-Year Special Study</td>
<td>arr.</td>
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<td>MED:8221</td>
<td>Clinical and Professional Skills III</td>
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<tr>
<td>MED:8222</td>
<td>Medicine and Society III</td>
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<tr>
<td>MED:8223</td>
<td>Mechanisms of Health and Disease IV</td>
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<tr>
<td>MED:8224</td>
<td>Mechanisms of Health and Disease Keystone</td>
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<td>MED:8229</td>
<td>Second-Year Special Study</td>
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<td>MED:8320</td>
<td>Transition to Clerkships</td>
<td>1-2 s.h.</td>
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<tr>
<td>MED:8401</td>
<td>Medicine, Literature, and Writing</td>
<td>arr.</td>
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<td>MED:8403</td>
<td>Teaching Skills for Medical Students</td>
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<tr>
<td>MED:8404</td>
<td>Advanced Teaching Skills for Medical Students</td>
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<td>MED:8405</td>
<td>Leadership for Future Physicians</td>
<td>2 s.h.</td>
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<tr>
<td>MED:8410</td>
<td>Quality Improvement and Patient Safety</td>
<td>2 s.h.</td>
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<td>MED:8411</td>
<td>Foundational Science and Drug Therapy</td>
<td>2 s.h.</td>
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<tr>
<td>MED:8412</td>
<td>Improvisation: A Life Skill</td>
<td>4 s.h.</td>
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Carver College of Medicine
MED:8413 Oaths and Ethics 4 s.h.
History and purpose of medical oaths; medical oaths compared with professional codes; content of medical oaths in terms of ethical principles and virtues; review of ethical values communicated in ethics-related seminars at University of Iowa Health Care; students write a medical oath that crystallizes their own most important professional commitments.

MED:8414 Health Policy Advocacy Des Moines 4 s.h.
Health policy advocacy experience in Des Moines while Iowa Legislature is in session; students choose an area of interest in health policy advocacy and work with senior legislators, policy advisors, state health department representatives, or advocates of various professional organizations involved in advocacy efforts for health policy; students receive prior approval regarding which health policy issue they want to work on and which individual or professional organization they plan to work with during their onsite experience. Requirements: MD enrollment.

MED:8415 Financial Management for Rising Interns 2 s.h.
Foundational concepts of personal financial management; topics include personal budgeting, educational loan management, investing, risk management and mitigation, medical practice investment, taxation, and additional relevant areas of interest for rising resident physicians. Requirements: MD enrollment.

MED:8416 Foundations in Healthcare Ethics 3 s.h.
Major ethical traditions, ideas, and frameworks that have shaped contemporary approaches to healthcare ethics in morally pluralistic Western cultures; four prominent frameworks in healthcare ethics include virtue based, principle based, circumstance based, and consequence based that emphasize four aspects of ethical decision-making—agent, action, context, and outcome.

MED:8470 Self-Directed Learning in Advanced Clinical Topics 0 s.h.
Online learning modules on advanced clinical topics; for students in MD program.

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.

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 health care 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 and MED:9711; identify an area/topic for creation of curriculum; conduct a needs assessment to identify topics and/or components of curriculum; create a plan with curriculum goals, learning objectives, and methods for evaluation; develop 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.

Hospital Certificate Programs of Study

The following courses are conducted by University of Iowa Health Care staff.
EMT-Paramedic Program Courses

**EMTP:3101 Emergency Medical Technician - Paramedic I**
0 s.h.
Preparation for role of entry-level paramedic: comprehension, application, and evaluation of the clinical role; demonstration of technical proficiency in all required skills; demonstration of personal behaviors consistent with professional and employer expectations. Requirements: certification as an emergency medical technician-basic.

**EMTP:3102 Emergency Medical Technician - Paramedic II**
0 s.h.
Preparation for role of entry-level paramedic: comprehension, application, and evaluation of the clinical role; demonstration of technical proficiency in all required skills; demonstration of personal behaviors consistent with professional and employer expectations. Requirements: admission to emergency medical technician paramedic program.

**EMTP:3103 Emergency Medical Technician - Paramedic III**
0 s.h.
Preparation for role of entry-level paramedic: comprehension, application, and evaluation of the clinical role; demonstration of technical proficiency in all required skills; demonstration of personal behaviors consistent with professional and employer expectations. Requirements: admission to emergency medical technology paramedic program.

Orthoptics Teaching Program Course

**OTP:4902 Orthoptics Program**
0 s.h.
Clinical science of binocular vision, ocular motility, and related eye disorders; practical, theoretical training in the Department of Ophthalmology and Visual Sciences two-year program; written, oral and practical national board examinations required at completion. Requirements: bachelor's degree with specific class recommendations.