Not Your Grandfather's Med School: Mayo Clinic School of Medicine Transforming Medical Education in Arizona and Worldwide

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Professor of Radiation Oncology
Dean- Arizona Campus
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Mayo Clinic School of Medicine

Health Care at a Crossroads

- Rising health care costs
- Aging population
- Increasing rates of acute and chronic illness
- Shrinking resources for patient care and research
- Implementing Affordable Care Act
- Declining reimbursement and a fragmented system

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Mayo Clinic School of Medicine
National Vision, Infinite Impact

LEAD, TRANSFORM, INNOVATE & HEAL

- Educate Physicians and Physician Scientists who will transform the practice of medicine by healing both patients and the health care system

Mayo Clinic School of Medicine

National Medical School

MAYO MEDICAL SCHOOL
MAYO CLINIC

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One School
Three Campuses
Single Governance Structure

- Minnesota: 4 Year Campus
  - 54 students/yr
- Arizona: 4 Year Campus
  - 2017 opening
  - 50 MD students/yr
- Florida: 2 Year Campus
  (Year 3 & 4 Clerkship Option)
  - Up to 8/yr MCR based

** MD-PhD student options*

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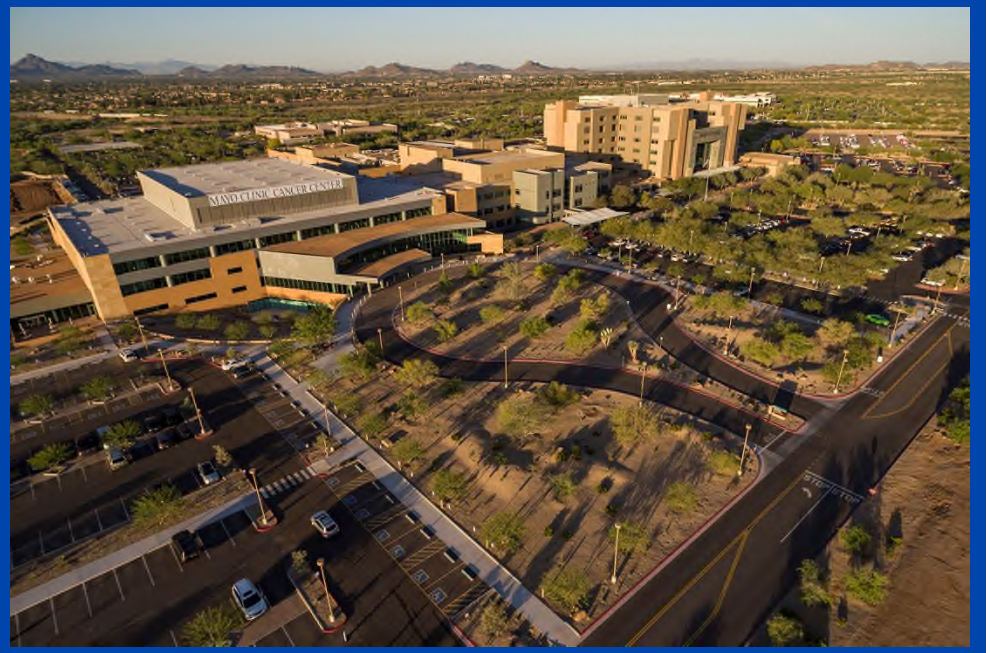
Mayo Clinic in Arizona: Clinic and Hospital Facilities



Mayo Clinic School of Medicine

Partnerships

ASU
ARIZONA STATE UNIVERSITY

Mountain Park Health Center

Phoenix Children's Hospital

Maricopa Medical Center

Mayo Clinic in Arizona
Graduate Education Footprint

- 42 residency programs
  - 135 Residents
  - 70 Fellows
- > 400 medical student and allied health trainees
- Graduate student training
- >580 Staff physicians and scientists

THE WALL STREET JOURNAL.

Tuesday, February 17, 2015 | R3

JOURNAL REPORT | UNLEASHING INNOVATION

Med Schools Aren't What They Used to Be

As the needs of the health-care system change, the way doctors are trained is changing, too

BY MELINDA BECK

CRITICS HAVE LONG faulted U.S. medical education for being hidebound, imperious and out of touch with modern health-care needs. The core structure of medical school—two years of basic science followed by two years of clinical work—has been in place since 1910.

rating the applicants, providing a broader range of views.

Styles of teaching and learning are also changing.

"We've replaced 'the sage on the stage' with 'the guide on the side,'" says Richard Zimmerman, a neurosurgeon and medical director for education for the new Mayo med school in Scottsdale.

At both the new school and Mayo's existing medical school in Rochester, Minn., much of the material traditionally taught in lecture classes will be converted to electronic formats that students can absorb on their own, leaving class time for discus-

fail, not graded, and students can evaluate their level of stress, fatigue and risk of suicide in a confidential Med Student Well Being Index, which also offers resources for help.

"When I went to med school 30 years ago, I don't remember anybody asking how we were doing," says Michele Halyard, vice dean of Mayo's medical-school programs. "But you can't heal the health-care system if you're sick yourself."

Less Memorization

What's being left out of medical education to make room for the new material?

Some schools are placing far

WALL STREET JOURNAL

by Melinda Beck – published Tuesday | February 17, 2015

Focus on Teams. Learning to work in teams is a main focus at Mayo—and a sharp departure from traditional training for doctors. *"The old model was, you'd go on rounds, the attending would ask a question, and the young resident had to get the right answer,"* says Dr. Decker in Scottsdale. *"In the new model, you're part of a team, and somebody else might have the right answer."*

In addition to the Mayo Medical School other articles will focus on community and primary care – four different ways of approaching primary care

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Accelerating Change in Medical Education

AMA Awards $11M to Transform the Way Future Physicians Are Trained

- Indiana University School of Medicine
- **Mayo Medical School**
- NYU School of Medicine
- Oregon Health Science University School of Medicine
- Penn State College of Medicine
- The Brody School of Medicine at East Carolina University
- Brown University
- University of California, Davis School of Medicine
- University of California, San Francisco School of Medicine
- University of Michigan Medical School
- Vanderbilt University School of Medicine

AMA
AMERICAN MEDICAL ASSOCIATION

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A New Education Model for Change

- Teaching physicians to:
  - Work in teams
  - Be professional
  - Make decisions with patients
  - Place the interests of our patients first
  - Provide highest value, safest patient care
  - Wellness and health

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Mayo Medical School Science of Healthcare Delivery

- Mayo value equation: quality/cost
  - Systems engineering, process improvement
  - Evidence based medicine
  - Patient safety

- Healthcare policy
- Clinical informatics
- Healthcare economics

- Health disparities
- Wellness/health promotion
- Health determinants
- Culturally sensitive care

- Shared decision making
- Individualized care
- Community resources
- Patient advocacy

- Collaboration with interprofessional teams
- Care transitions

- Change management
- Motivation
- Strategic decision making

Science of Healthcare Delivery

- Certificate SHCD
  - Granted to all students
  - Jointly conferred Mayo & ASU
- Master's SHCD- ASU

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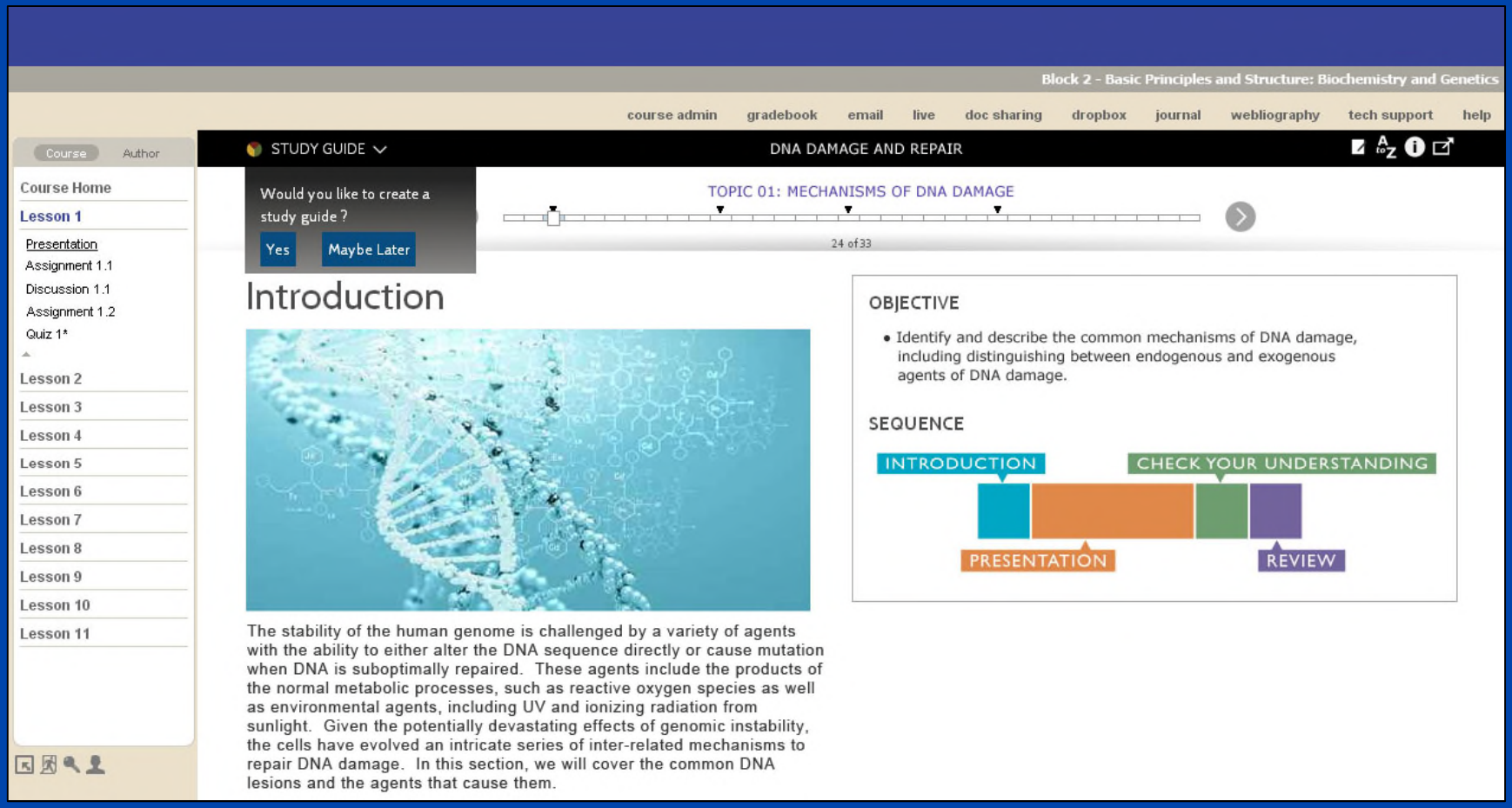
Blended Learning



- **Intuitive navigation tools within and between lessons**
- **Clear outline of expectations**

Case Studies

Reinforce & extend online learning

- Personal interaction with faculty
  - Less passive, higher quality
- Team-based problem solving
  - Peer interaction, teamwork
- Integrate basic science & healthcare delivery content
  - Real-word examples, complex decision-making

Planned dual degrees in development

- MD-MBA
- MD-JD
- MD- Masters in communication
- MD-HST

Burnout and Alcohol Abuse/Dependence Among U.S. Medical Students

Eric R. Jackson, T
and Liselotte N.

Burnout Among U.S. Medical Students, Residents, and Early Career Physicians Relative to the General U.S. Population

Liselotte N. Dyrbye, MD, MHPE, Colin P. West, MD, PhD, Daniel Satele, Sonja Boone, MD, Litjen Tan, MS, PhD, Jeff Sloan, PhD, and Tait D. Shanafelt, MD

The Impact of Stigma and Personal Experiences on the Help-Seeking Behaviors of Medical Students With Burnout

Liselotte N. Dyrbye, MD, MHPE, Anne Eacker, MD, Steven J. Durning, MD, PhD, Chantal Brazeau, MD, Christine Moutier, MD, F. Stanford Massie, MD, Daniel Satele, Jeff A. Sloan, PhD, and Tait D. Shanafelt, MD

Innovative Student Support Program

TRAIN AND SUSTAIN

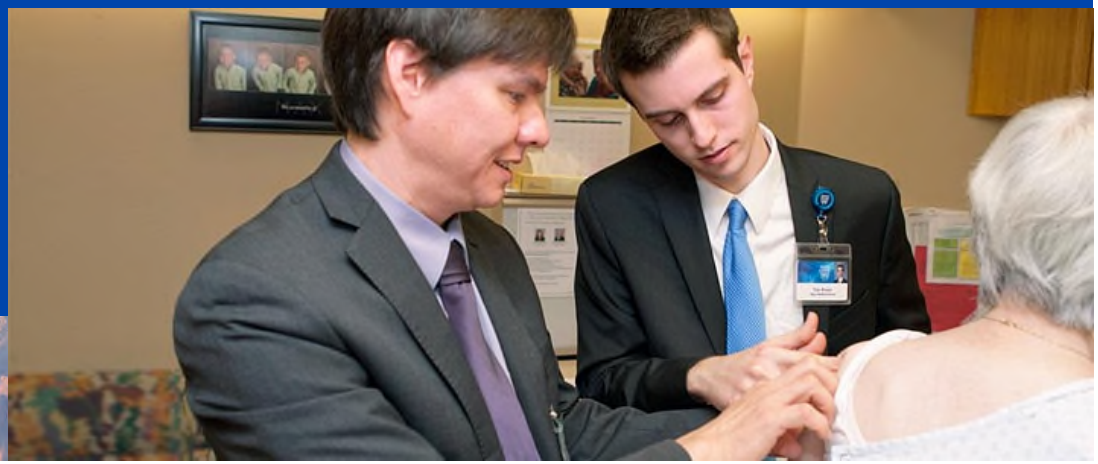
SURVIVING TO THRIVING

Admissions Accomplishments

- Over 2,500 applications received
- Extensive recruitment locally, regionally, nationally
- Applications from AMCAS received starting 6/24/16
- Interviews starting in September
- Appointments begin Fall 2016

Community Impact

- Help address Arizona physician shortage
  - 2,400 Arizona physicians needed
- Support Arizona's robust bioscience industry
- Create the Physician Leaders of the Future



Mayo Clinic School of Medicine
Arizona Campus

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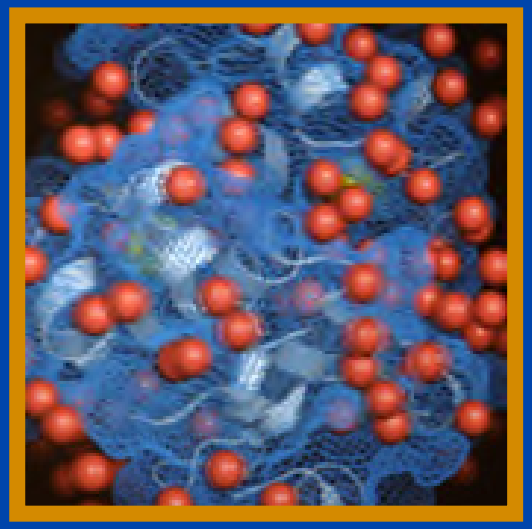
Student Resource/Library

Mayo Medical School-Arizona Campus

Mayo Clinic School of Medicine

The Future



By collaborating with members of the bioscience community, Arizona State University and generous benefactors nationwide, Mayo Clinic will redefine medical education for the 21st century