

Pre-Health Collection: Resources to Enhance Your Instruction

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Serve
Lead



Pre-health Collection within MedEdPORTAL's iCollaborative

- Starting year 4 of the journey!
- Building on the idea that has worked in medical schools....

free
open access
high-quality
educational resources
can improve medical education

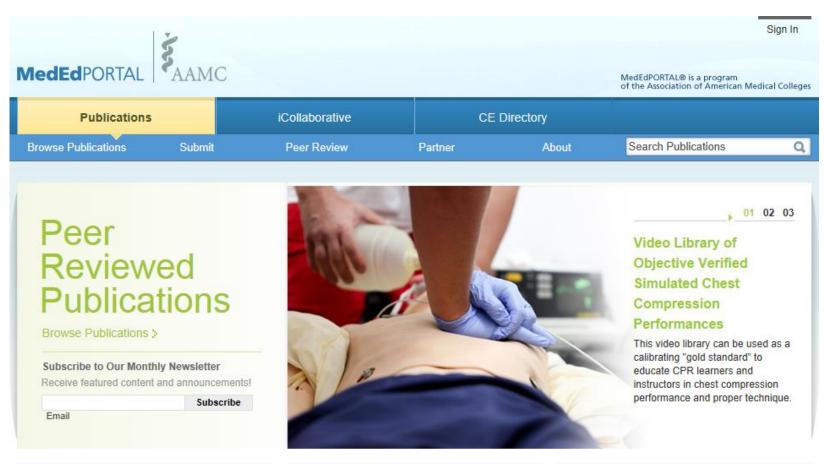


Topics to Discuss:

- Features offered by MedEdPORTAL
- Where the Pre-health Collection fits in
- Vision for the Pre-health Collection
- What's in the collection?
- Finding new resources
- Value of community participation
- What will help you?
- Opportunities to get involved



MedEdPORTAL



Featured Publications

Latest

Critical Synthesis Package: Revised Two-Factor
Study Process Questionnaire (P. SPO 3E)

News & Updates

March 16, 2013

Publications Introduces the DREAM Collection

Sponsored Collections

Interprofessional

***IPEC**

Education

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MedEdPORTAL Suite of Services

Publications

• Serve as the premier clearinghouse of high quality, peer reviewed health education tools.

iCollaborative

• Promote interprofessional collaboration by facilitating the open exchange of educational resources across the health professions.

CE Directory

• Equip healthcare professionals across the continuum with effective and efficient educational resources to improve patient care.



An Integrated Solution

The MedEdPORTAL Suite



PUBLICATIONS

Peer Reviewed Teaching/Assessment Tools



iCOLLABORATIVE

Non-MedEdPORTAL
Peer Reviewed
Innovative
Approaches, Practices,
and Strategies



CE DIRECTORY

Online Continuing Education Courses for Credit

MedEdPORTAL iCollaborative Overview

- Free online sharing and collaboration service
- 2. Open to the general public around the globe
- 3. Community building environment
- 4. Innovative approaches, practices, and strategies for transforming healthcare



www.mededportal.org/icollaborative



Sample iCollaborative Resource



The Social Roots of Health Disparities

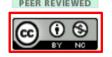
Format Resource ID Posted



Description

The modules in this series provide an overview of key concepts and research findings in the field of health disparities. The individual presentations focus on health outcomes, but also illustrate core sociological concepts of race, ethnicity, and socioeconomic status. The material would be relevant in courses focused on medical sociology or social stratification and inequality.

*This resource was recognized as a top submission by the AAMC's Pre-Health Initiative review committee.



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General Information

Authors & Co-Authors

Outcomes

Comments (0)

Keywords

MCAT, Pre-health, Foundational Concept 9, Foundational Concept 10, Content Category 9A, Content Category 9B, Content Category 10A, Undergraduate Faculty, Health Disparities, Socioeconomic Status, Race and Ethnicity, Infant Mortality

Academic Focus

- Behavioral & Social Sciences
 - Psychological
 - Social

Intended Audience

- University College Undergraduate
 - Undergraduate Student

Instructional Methods

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you do not have one.



Register

Related Materials

iCollaborative (5)

- User-Paced Learning of Cell Biology Concepts Using Livescribe Pencasts
- Computed Tomography
- Exploring Medicine Respiratory Module

Pre-health Collection within MedEdPORTAL's iCollaborative

- A new model to share innovations in the curriculum as they emerge.
- A way to discover what is available now.
- Quicker and more responsive to the immediate needs of faculty and a changing curriculum.
- A space to build a community of faculty with shared interests.





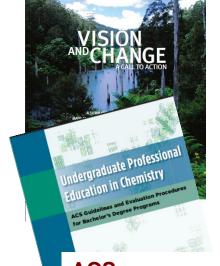
Goals for Pre-health Collection

- Free, open access resources will support faculty, students, and institutions in teaching and learning
- Offer support where it is needed most.... to help ensure the health workforce is as diverse as the population they will eventually treat
- Allows faculty to update curriculum with less effort by incorporating free, innovative teaching modules
- Provides an online community for faculty to discuss, rate resources, and contribute content



Background on Pre-health Competencies

- STEM-education reforms focusing more developing broader skills rather than knowledge & memorization
- Medical schools moving towards competencybased instruction
- Alignment of efforts

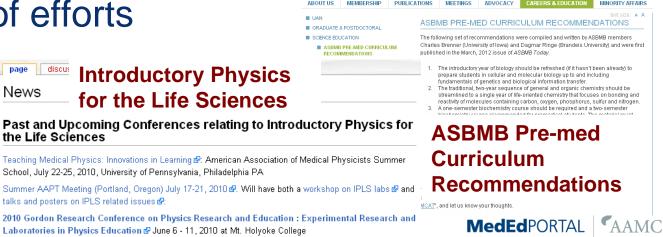


Vision and Change in Biology Education



TOTAL CALENDAR NEWS INTERACTIVE

ACS
Recommendations



Background on Pre-health Competencies

Academic Competencies

2009

The Scientific Foundations for Future Physicians Report (AAMC/HHMI)

2011

The Behavioral and Social Sciences Foundations for Future Physicians Report

2015

New MCAT exam adds content from biochemistry, sociology, and psychology, and Scientific Inquiry and Reasoning Skills

Behavioral and Social

Roadmap to
Diversity:
Integrating
Holistic
Review
Practices



Science Foundations for

Future Physicians MedEdPORTAL

HHMI



Experiences

The path an applicant has taken to get where he or she is

<u>A</u>ttributes

The applicant's personal qualities and demographic factors

Academic Metrics

The numeric information about an applicant's academic performance (e.g., MCAT scores, GPA, academic record)



Shift to Competencies Not Courses

- Moving towards an admissions process that is less focused on course requirements
- Exploring ways to measure competencies
- Competencies in natural and behavioral sciences
- Interpersonal and Intrapersonal competencies



Interpersonal Competencies

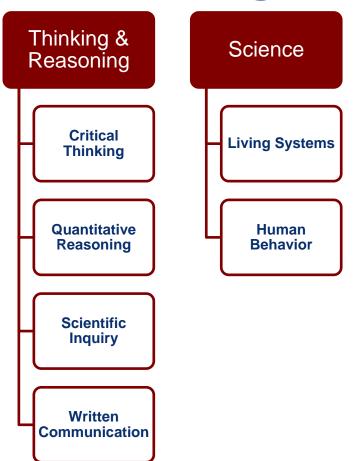
- Service orientation
- Social and interpersonal skills
- Cultural competence
- Team work
- Oral communication

Intrapersonal Competencies

- Integrity and Ethics
- Reliability and dependability
- Resilience and adaptability
- Capacity for improvement



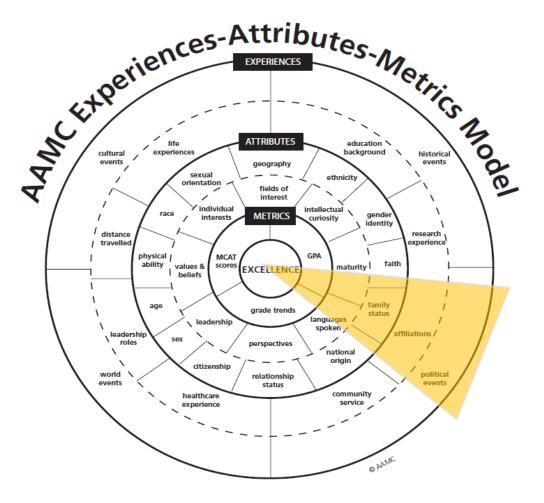
What are the core competencies for entering medical students?







What is a competency?

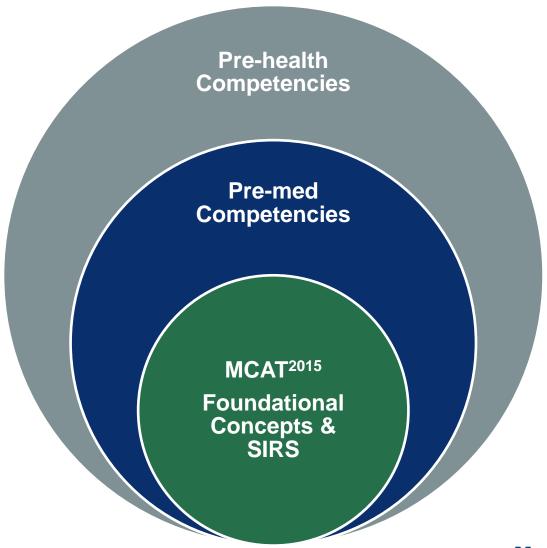


Observable
 behavior that
 combines
 knowledge,
 skills, values,
 and attitudes
 related to a
 specific activity

Adapted from Workforce America: Managing Employee Diversity as a Vital Resource, McGraw Hill Publishing, 1990



What's included in **Pre-health Competencies?**





Begin with Focus MCAT²⁰¹⁵ Content

- Provide resources that teach the pre-health competencies found in the new MCAT²⁰¹⁵ exam.
- Searchable by Foundational Concept
- New content: introductory psychology and sociology content that relates to pre-health is now a significant component of the exam, including...



Psychological, Social, & Biological Foundations of Behavior

Concept 6

 Biological, psychological, and sociocultural factors influence the ways that individuals perceive, think about, and react to the world.

Concept 7

 Biological, psychological, and sociocultural factors influence behavior and behavior change.

Concept 8

 Psychological, socio-cultural, and biological factors influence the way we think about ourselves and others.

Concept 9

 Cultural and social differences influence wellbeing.

Concept 10

 Social stratification and access to resources influence wellbeing.



Where Does the Project Stand Now?

- 2009 pilot of a peer-reviewed collection resulted in 9 published resources
- Grow collection faster by sharing resources before peer-review
- Nearing 100 resources in the collection
- 6 awards for outstanding resources
- Focus on growing collection
- Seeking broader participation and building a community



What's in the Pre-health Collection?

Academic Focus

Basic Science (65)

Behavioral & Social Sciences (22)

Intended Audience

University College

Undergraduate (85)

Instructional Methodology

Assessment (11)

Independent Study (77)

Lecture (6)

Problem-based Learning (6)

Simulation (12)

Format

Animation (24)

Audio (1)

Case (5)

Curriculum (6)

Evaluation Tool (2)

Image (1)

Lab Guide (8)

Multimedia (4)

Presentation (6)

Reference (44)

Tutorial (24)

Cell Biology of Virus Entry

Format: Video

Skeletal System

Format: Tutorial

Animation of Replication

Format: Animation

The Brain from Top to Bottom

Format: Reference

The Biology Project: Cell Biology

Format: Tutorial, Reference

Excitable Cells

Format: Reference

mRNA Processing--Tutorial and Animation

Format: Animation, Tutorial

Functions of the Nervous System

Winners of First Call for Submissions

Biology: Respiratory module for the course, "Exploring Medicine," Stephen Jameson, MD, University of St. Thomas

Biochemistry: User-Paced Learning of Cell Biology Concepts Using Livescribe Pencasts, Angela Shaffer, George Mason University

Chemistry: The Illustrated Novel Project in Science and Medicine, Jennifer Grant, The University of Wisconsin-Stout

Physics: Computed Tomography, Elliot Mylott et al, Ryan Klepetka, Ralf Widenhorn, Grace Van Ness, Portland State University

Psychology: The Eyes Have It: Promoting Classroom Discussion of Equal Marriage Rights, Gary W. Lewandowski Jr, Monmouth University, Timothy J. Loving Ph.D, University of Texas – Austin, Miranda Bobrowski, Texas Tech University

Sociology: *The Social Roots of Health Disparities,* Donald Barr, MD, Stanford University School of Medicine



New Call for Submissions

- Submit an original resource that teaches a prehealth competency
- Six prizes of \$750 for best submission
 - biology
 - biochemistry
 - chemistry
 - physics
 - psychology
 - sociology
- Deadline is August 26

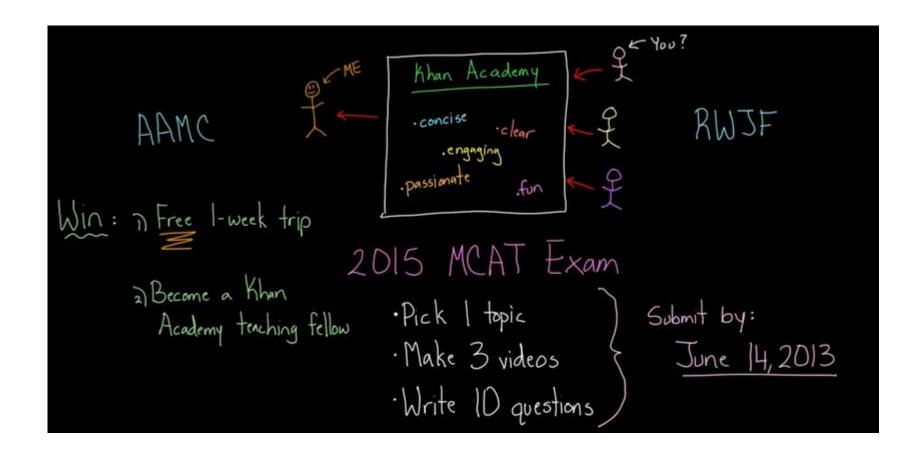
www.mededportal.org/icollaborative/pre-health

Collaboration with Khan Academy

- Suggestion from AAMC members
- Collaboration with the Robert Wood Johnson Foundation
- Medical students teaching pre-meds
- Competition through June 14, 2013
- Resources by Fall 2013



Collaboration with Khan Academy



www.khanacademy.org/about/med-competition

Other Strategies to Build the Pre-health Collection

- Submit a resource you authored
- Refer a resource you use
- Comment on a resource
- Ask others to submit resources
- Suggest resources to faculty
- Share resources with your students
- Become a reviewer

Refer Resources

Have you used open access pre-health learning activities? Email us and let us know more about the materials.

CONTACT US >

Join the Conversation

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0 ratings

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Comments Add Value





The Illustrated Novel Mastery Project in Science and Medicine

Format Resource ID Posted
Lab Guide 642 April 2, 2013



Description

A course assignment asking students to create a graphical novel to explore biology, biochemistry and chemistry topics in the context of disease. The process of writing this novel occurs throughout the semester long course, where there are specific and scaffolded activities that require each student to relate course content directly to their novel-in-progress. As they create their novels, students practice several core principles that guide the pre-health and pre-med competencies.



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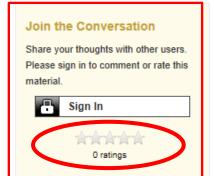
Authors & Co-Authors

Outcomes

Comments (0)

Keywords

MCAT, Pre-health, Foundational Concept 2, Foundational Concept 3, Foundational Concept 5, Content Category 2A,
Content Category 3A, Content Category 5B, Undergraduate Faculty, Disease Pathways, Graphical Novel, Creative Writing



Material Access

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Related Materials

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Ideas?

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Lead