

The MCAT

Montana WWAMI Pre-Med
Conference

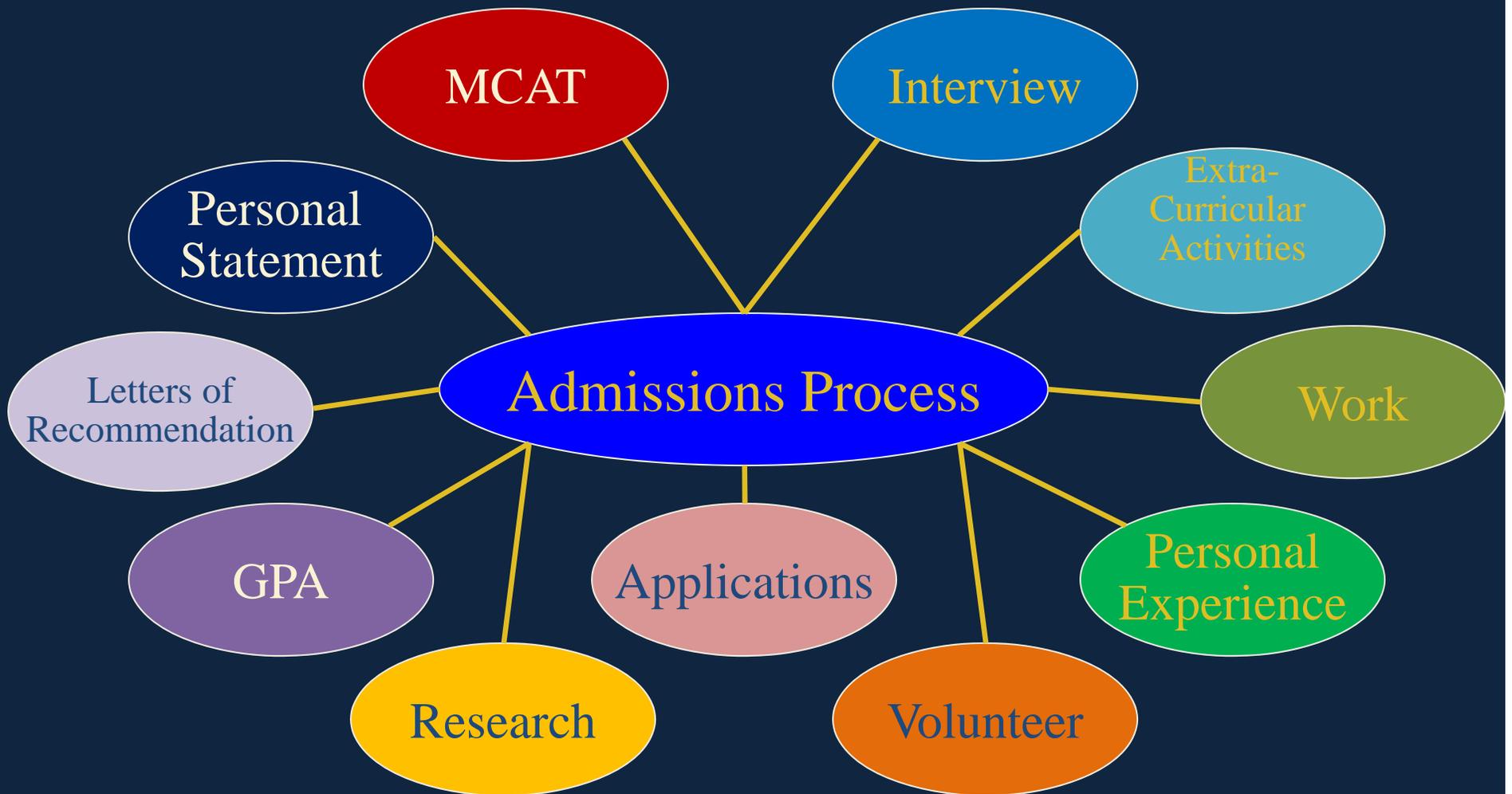
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Medical College Admission Test

- Sponsored by the AAMC (www.aamc.org)
 - Association of American Medical Colleges
 - BEST source of information
- Purpose: To measure your knowledge and application of science concepts, problem solving skills, critical thinking, and the human condition.

MCAT is only one part of your admissions process



Introduction

- MCAT has been used in the medical school admissions process for more than 60 years.
 - Provides mechanism to:
 - identify applicants more or less likely to experience academic success
 - Assess specific strengths and weaknesses
 - Interpret transcripts and letters of recommendation
- About 100,000 exams were administered in 2017.
- Fully computerized since Jan 2007
- Content review and update about every 15 years.
 - MCAT 2015 version released after several years of development (HHMI-AAMC collaborative report on competencies)

Desirable characteristics of medical students and physicians (holistic review):

- intellectual ability: not necessarily = to academic record
- commitment/service
- cultural sensitivity
- empathy/compassion
- capacity for growth
- emotional resilience
- strength of character
- interpersonal skills
- curiosity and engagement

Medical schools would like...

- Ability to integrate info and large data sets
- Critical thinking
- Logical reasoning
- Scientific reasoning
- Verbal reasoning
- **Biology**
- Written/oral communication
- **Cell Biology**
- Integrity
- Professionalism
- **Biochemistry**
- **Organic Chem**
- Maturity
- Intellectual curiosity
- **Genetics**

Test Structure

<u>Topic</u>	<u>Questions</u>	<u>Time</u>
Examinee Agreement		4 min
Tutorial (<i>optional</i>)		10 min
Chemical/Physical Foundations	59	95 min
Break (<i>optional</i>)		10 min
Critical Analysis	53	90 min
Mid-Exam Break (<i>optional</i>)		30 min
Biological/Biochemical Foundations	59	95 min
Break (<i>optional</i>)		10 min
Psychological/Social Foundations	59	95 min
Void Question		3 min
Satisfaction Survey (<i>optional</i>)		5 min
Total Content Time		6hr 15 min
Total Seat Time		7hr 30 min

~96 sec/Q (compared to 78 sec/Q on old exam) Former seat time 5hr 25 min

Chemical and Physical Foundations of Biological Systems

- First Semester Biochemistry 25%
- Introductory Biology 5%
- General Chemistry 30%
- Organic Chemistry 15%
- Introductory Physics 25%

- 59 questions
- 10 passage based sets of questions, 4-6 questions per set
- 15 independent questions

Critical Analysis and Reasoning Skills

- Humanities and Social Science Disciplines
 - Population health
 - Diverse cultures
 - Ethics
 - Philosophy
- No specific background information needed
 - 53 questions
 - 9 passages, 5-7 questions each

Biological and Biochemical Foundations of Living Systems

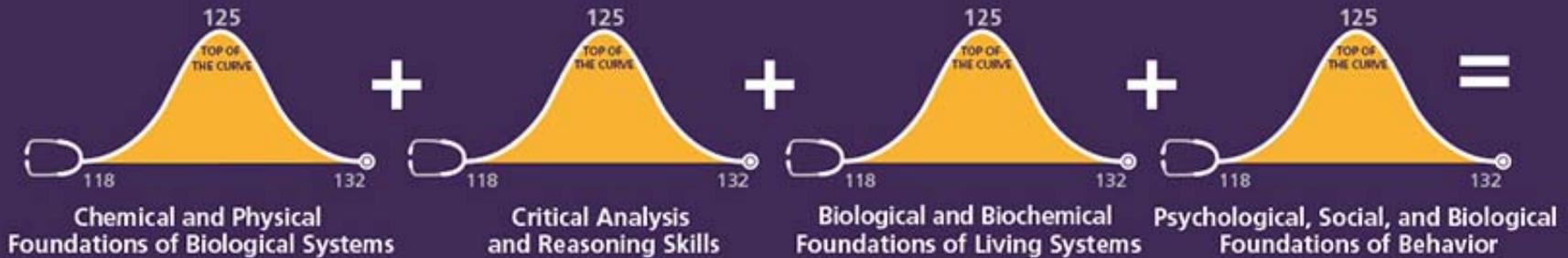
- First semester Biochemistry 25%
- Introductory Biology 65%
- General Chemistry 5%
- Organic Chemistry 5%

- 59 questions
- 10 passage based sets of questions, 4-6 questions per set
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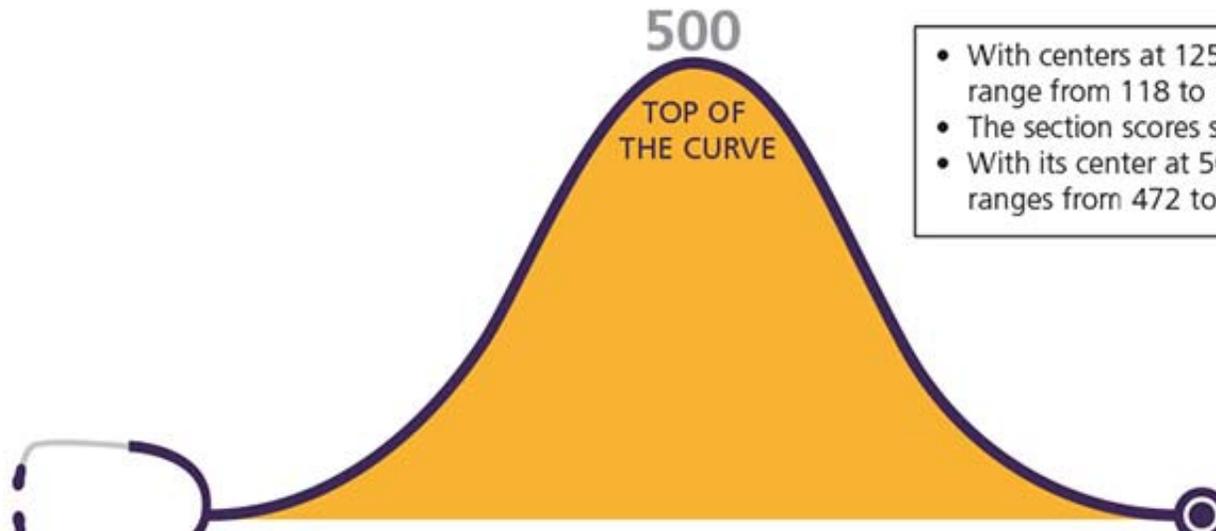
Psychological, Social, and Biological Foundations of Behavior

- Introductory Psychology 65%
 - Introductory Sociology 30%
 - Introductory Biology 5%
-
- 59 questions
 - 10 passage based sets of questions, 4-6 questions per set
 - 15 independent questions

New Score Scale



MCAT2015 Total Score



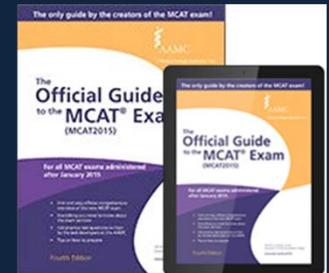
- With centers at 125, section scores range from 118 to 132.
- The section scores sum to the total score.
- With its center at 500, the total score ranges from 472 to 528.

Preparing for the MCAT

- Know your own style !!!
 - group or solo
 - how long is an appropriate time for prep
 - do you need the motivation provided by outside sources (online or otherwise)
- Use AAMC resources -
 - free online information
 - *The Official Guide to the MCAT Exam*
 - Take at least one practice test online in similar conditions as you would the real test (i.e. at a library or in a classroom).
- Use course notes, textbooks, exams, etc
 - most of what you need to know you have already learned
- Practice (aamc.org) Practice Practice

Preparing for the MCAT

- Scientific competency involves fundamental principles in biology, gen chem, Ochem, physics, biochem.
 - Advanced sciences courses are not likely to improve your score.
- CARS passages contain all the information you need.
 - Participation in a variety of courses (humanities) will enhance performance - critical thinking and reasoning skills.
- Official Guide to the MCAT
- AAMC/Kahn Academy Partnership - over 1,100 content videos -- **** FREE ****
- AAMC Sample test, 2 practice tests & 3rd released Nov '17
- Other (how do you decide)

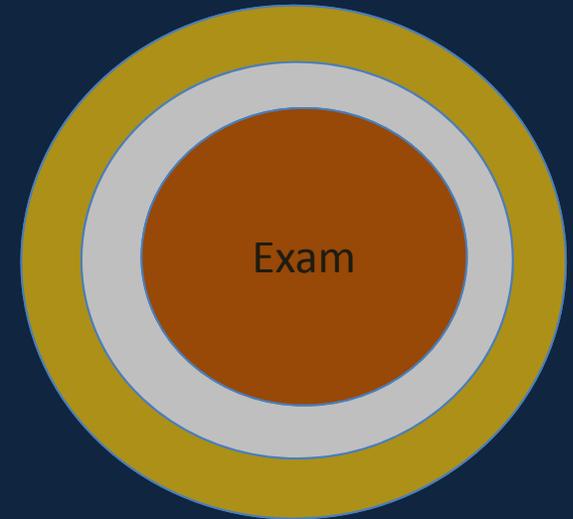


Registration

- First come-first served, plan ahead and note 2 step process
 - sites include Billings and Helena *** surveys, emails***
- Jan- June dates - registration opened Oct 18
- July- Sept dates - registration will probably open in Feb
- During registration, enter your name EXACTLY as it is on your (unexpired) ID
- Make sure your email address is correct and current
- If you need your score this year, don't plan on a Sept date
 - Some schools don't accept
 - If you have problems, there is no time to reschedule
- Scores are returned in 30-35 days
 - plan accordingly

Costs (2017)

- **Gold:** ~ month before exam
 - \$315 Registration
 - \$90 change fee
 - Cancellation refund (\$155)
- **Silver:** 2 weeks before exam
 - \$315 Registration
 - \$150 change fee
 - NO refund
- **Bronze:** 1-2 weeks before exam
 - \$370 Registration
 - NO change allowed
 - NO refund



Registration

- You can take up to 4 exams in two years or 3 in one year
 - In 2017, 12% of examinees took exam twice, 1% took three times
- You can only register for 1 at a time
- Score release
 - AAMC automatically - and all AMCAS participating schools to which you apply
 - Health Professions Advisor
 - Med-MAR - for disadvantaged or under-represented minorities only
 - MCAT recruiting service - schools may use info to send you recruiting materials.
- MCAT Testing History (THx) system
 - Your access to scores
 - May request score release to entities other than AAMC/AMCAS
- Fee assistance programs are available - **Apply early !!**
 - 300% of the poverty level
 - Good for two years, but only one application cycle

Test Day

- Arrive early -
 - eat well and pack nutritious snacks
- If traveling:
 - If not familiar with location, find ahead of time.
 - Stay locally, exams start at 8am and you will be exhausted by the end. Arrive 30 min early
- ID - government issued with name, photo, expiration date.
 - name must be EXACTLY as you registered! Palm scan this year
- Items allowed in room:
 - ear plugs, unopened (meds/food for medical purposes, must have accommodation)
 - scratch paper, ear covers, pencils will be provided
- Clothing
 - Plan. Room temp may vary - how can you be comfortable. Hats may need to be removed. Extra layer may not be allowed.
- Use breaks to stay nourished, alert and energized.

Exam tips

- Practice -
 - know the key strokes - there are changes this year - practice will be released in December
- Know the parts of the exam-
 - Non disclosure Agreement defaults to 'NO' -
 - you will not be allowed to take exam if you don't answer.
 - Void exam question defaults to 'YES'
 - your exam will be scored
- Have contact info with you
 - testing center phone #
 - AAMC (202) 828-0690, esp for ID issues
- Problems should be reported to Test Center Administrator and in writing to AAMC within 5 days.

To retake or not to retake?

- Discrepancy between GPA and MCAT score
 - or between practice and real MCAT scores
 - AAMC recommends NOT to retake if score is 28 or higher.
- Course work experience was inadequate
 - finish recommended course work and retake
- Technical problem
 - be very well prepared, know instructions, sign-in requirements, etc
 - sometimes things will still go wrong and the AAMC may or may not be able to assist.
- Personal disruption
 - illness
 - travel complications
 - etc

Evaluation of retake scores

- Schools vary in their approach to interpreting multiple scores
- The recommendation to schools last year was to consider the average
- But...
 - look at all and note improvements
 - consider only the most recent
 - average ALL scores
 - use only highest score
 - use highest score from each section

Questions ?

