

# MCAT<sup>®</sup>

## Student Guide

**SAMPLE**



# MCAT<sup>®</sup>

## MCAT Student Guide

Are You Ready for the MCAT <sup>®</sup> ? .....	3
General Schedule and Overview .....	5
Subject Specific Overview .....	9
Biology Syllabus and Homework Schedule .....	10
General Chemistry Syllabus and Homework Schedule .....	12
Organic Chemistry Syllabus and Homework Schedule .....	13
Physics Syllabus and Homework Schedule .....	14
Psychology/Sociology Syllabus and Homework Schedule .....	15
Critical Analysis and Reasoning Skills Syllabus and Homework Schedule .....	16
Syllabus Abbreviation Legend .....	18
MCAT <sup>®</sup> Information and Basic Techniques .....	19

# Welcome to The Princeton Review!

Welcome to TPR's MCAT® preparation program! You've made a great decision to prep with us and we look forward to working with you. Our program is the best in the business: we offer 123 hours of live instruction, 14 full-length practice tests (including all of the available AAMC exams), a state-of-the-art online learning system that incorporates recent educational psychology research on the best ways to learn, 9 comprehensive textbooks, and thousands of questions in drills and practice passages, both online and printed. Our instructors are highly qualified experts in their field and must be certified in a rigorous training before entering the classroom. You are in great hands! But, like anything else, it's not magic: you'll get out of it what you put into it. This guide offers recommendations for how to set up your preparation schedule most efficiently and effectively. If at any time you have questions, let us know: we are here to help.

## Register for the Test

Signing up for The Princeton Review MCAT course **does not** register you for the actual MCAT. If you haven't already, register now at [www.aamc.org](http://www.aamc.org). The current fee is \$305-\$355, depending on when you register.

## We Love to Hear From You

Questions about course content should be directed towards your instructors. If at any time during the course you have concerns about any aspect of the program, please call us at 800-2REVIEW. Your satisfaction is incredibly important to us, so don't hesitate to let us know what we can do to improve your MCAT course experience.

We will also issue a post-course survey, "Would You Recommend The Princeton Review?" We hope your answers will reflect our efforts to deliver the type of program that has made The Princeton Review a leader in test prep and admissions services. We look forward to working with you.

## Are You Ready for the MCAT<sup>®</sup>?

The MCAT<sup>®</sup> has been designed by the AAMC with the stated purpose of aligning the content knowledge tested with the material students need to know in order to be successful in medical school. The test includes an emphasis on biochemistry, molecular biology, and psychology and sociology. Use the checklist below to record a snapshot of your current confidence levels in each of the major topic areas tested. Are there science categories you already know should be an area of focus for you? Being aware of those can help you focus your preparation.

Content Topic	Rate Your Confidence				
	(1 = low confidence/knowledge, 5 = strong confidence/knowledge)				
Autonomic Nervous System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bacteria	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biochemical Pathways	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biological Macromolecules	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cancer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cardiovascular System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cellular Respiration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Central/Peripheral Nervous System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Digestive System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DNA Replication	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DNA Structure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Embryology and Development	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Endocrine System and Hormones	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Enzymes and Enzyme Inhibition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Eukaryotic Cell Structure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Evolution and Natural Selection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Immunology	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Linked Genes and Hardy Weinberg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mendelian Genetics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mitosis/Meiosis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Musculoskeletal System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mutations and Repair	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Neuron Structure and Function	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Protein Translation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Renal System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reproductive Systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Respiratory System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RNA Transcription	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transmembrane Transport	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Viruses, Prions, Viroids	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Acids and Bases	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Amino Acids and their Abbreviations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Atomic Structure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bonding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Buffers and Titrations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Electrochemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Equilibrium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Gases	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intermolecular Interactions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Kinetics and Thermodynamics	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Periodic Trends	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Phases and Phase Changes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radioactivity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Redox Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Solutions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stoichiometry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aldehydes and Ketone Chemistry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Carboxylic Acid Derivatives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nomenclature and Functional Groups	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nucleophiles, Electrophiles, Leaving Groups	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Separation Techniques	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spectroscopy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### About Score Reports:

Score reports are found by logging into your Student Tools at [www.princetonreview.com](http://www.princetonreview.com). Drill score reports and diagnostic exam score reports can be accessed by going to the Classes page (where you initially launched the drill or diag) and clicking “View Report”. Practice test score reports are viewable from the Practice Tests page. Note that scores for the drills and diagnostic exams are reported simply as a percent correct and *do not* correlate with MCAT scores.

**Note that the overall Diagnostic Exam score is less important than your performance in the individual subtopics. The subtopics within the sciences correlate with lecture topics and knowing the subtopics in which you show weakness will be important in guiding your homework and study throughout the course. Make sure to take note of your weaker science subtopics or CARS question types.** You can do this by opening the score report, then under “My Answers” click on “By Category”. You’ll want to review the individual questions as well; to review a question, simply click on the question number in your score report.

### About Practice Tests:

At **minimum**, you should take and review five Practice Tests throughout your course, approximately one test every two weeks. The order in which you should take the tests is:

- AAMC Practice Test 1
- MCAT Course Test 1
- MCAT Course Test 2
- MCAT Course Test 3
- MCAT Course Test 4
- MCAT Course Test 5
- AAMC Practice Test 2

Feel free to take more practice tests as your time and schedule allow. The more tests you take and review, the more you will benefit. Additional tests include:

- MCAT Demo Test
- MCAT Review Test 1
- MCAT Review Test 2
- TPR MCAT Test 1
- TPR MCAT Test 2
- TPR MCAT Test 3
- AAMC Sample Test

MCAT Demo Test is the test anyone can take for free on our website. MCAT Review tests are associated with the MCAT Review series textbooks that you received with your course materials. TPR MCAT tests are associated with our retail book “TPR MCAT 2<sup>nd</sup> ed.”. We have included them in your course for your convenience and practice. The AAMC Sample Test is provided with the AAMC practice material on your Resources page, but does not provide a score other than percent correct.

You can incorporate the additional tests into the General Schedule as your time allows. Make sure to include review time; taking practice tests without reviewing the answers is not helpful. Also make sure to review any questions you are unsure about, or need guidance on, with your instructors.

Note that due to copyright reasons, we are not allowed to reproduce any AAMC content on our website; to review any of your AAMC tests or questions you must view the **AAMC score reports**.

You might choose to review your tests using the Question Review Worksheet found in the Resources section of your online content, under “Additional Printable Resources.” You can print out this PDF form and fill out a copy for each section of the practice test you are reviewing. Highlighting the questions you got wrong can help you see patterns and/or areas of weakness. For CARS, use the CARS Self-Evaluation Survey (*CARS Review* pp. 30-43) and the Test Assessment Log (*CARS Review* p. 24-26). Copies of the log can also be downloaded from your online content.

### **About *amplifire*<sup>TM</sup>:**

*amplifire*<sup>TM</sup> is a revolutionary new software tool to help you review and learn MCAT science content. There is at least one *amplifire*<sup>TM</sup> module, sometimes more than one, for each MCAT science lecture.

Think of *amplifire*<sup>TM</sup> as electronic flashcards, but better because they are MCAT-style questions. Each module contains approximately 20 questions that are presented to you in groups of eight. You must answer each question correctly twice to consider the module “mastered”; if you get a question wrong, the program will continue to cycle that question and present it to you until you have answered it correctly twice.

All the science lectures also have *amplifire*<sup>TM</sup> Primer questions. These are very short sets of questions (5-6) designed to be taken before their relevant lecture. No answers or explanations are provided for these questions, and this is by design; they are created to wake up, or “prime”, your brain for lecture... you’ll get the answers to these as you follow along with your instructor in class.

### **About the Video Lessons (MedFlix):**

All of the MCAT lectures were broken down into 5-15 minute segments and recorded to create a library of content videos. These videos are available on your coursework page associated with their specific lecture. The videos can be used in two different ways:

- **To preview specific content topics before lecture.** Maybe it’s been a while since you’ve seen DNA replication, and just want a quick preview before class. In some cases, it’s helpful to watch videos before class because they aren’t going to be included in lecture, for example, there are two MCAT Math videos that are helpful to watch before Physics 1, and there are several Statistics videos, the content of which will not be discussed during lecture.
- **To review or refresh content after lecture.** Maybe you had to step out of class for a moment and missed something, or maybe you didn’t quite get it the first time and just need to see it again. You can watch – and pause! – these videos as many times as you like.

Note that the CARS passages and exercises covered in the videos can be found in the CARS Review, not in the ICC (ICC passages are not discussed in the videos):

- MedFlix CARS Passage Drill I: The Six Steps in Action (CARS Review Chap. 2, Practice Passage 2, pp. 52-53)
- MedFlix CARS Passage Drill II: Active Reading (CARS Review Chap. 4, Practice Passage 1, pp. 176-177)
- MedFlix CARS Passage Drill III: Answering in Own Words (CARS Review Chap. 8, Exercise 6 Passage I, pp. 302-303)
- MedFlix CARS Passage Drill IV: Attacking the Questions (CARS Review Chap. 9, Practice Passage 1, pp. 336-337)
- MedFlix CARS Passage Drill V: Annotating POE (CARS Review Chap. 8, Practice Passage 2, pp. 326-327)
- MedFlix CARS Skill Building Drill: Passage Ranking Exercise (CARS Review Chap. 6, Passage Ranking Exercise, pp. 226-227)
- MedFlix CARS Passage Drill VI: Ranking and Pacing (CARS Review Chap. 6, Practice Passages 1 & 2, pp. 234-237)
- MedFlix CARS Passage Drill VII: 5 Minutes Left is located in (CARS Review Chap. 7, Exercise 2 “5 Minute Drill,” pp. 258-259)
- MedFlix CARS Passage Drill VIII: Solidifying Your Strategy 1 (CARS Review Chap. 7, Practice Passage 1, pp. 272-273)
- MedFlix CARS Passage Drill IX: Solidifying Your Strategy 2 (CARS Review Chap. 9, Practice Passage 2, pp. 338-339)

This list is also on the Resources page in your online content under “Information about Tests, Diagnostic Exams, *amplifire*<sup>TM</sup>, and MedFlix”.

### **About LiveOnline Psychology/Sociology:**

The Psychology/Sociology portion of this course is delivered LiveOnline (LOL) via *Blackboard Collaborate*. When you access your online resources for the first time you will schedule your LOL Psych/Soc class sessions. The classes are scheduled as a unit, with a single instructor. You can access the classroom links from the individual Psychology/Sociology Class pages; the links to the classroom become active 15 minutes before class starts. You can also review a live recording of the class by clicking the “Review” button after class is over.

## General Schedule

Remember to schedule your study time like you would schedule anything else important. Set aside blocks of uninterrupted time when you know you can focus effectively.

WEEK	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
0 (before course start)	Biology Diagnostic Exam 1A	Gen. Chem. Diagnostic Exam 1A	Physics Diagnostic Exam 1A	O-Chem. Diagnostic Exam 1A	Psych/Soc Diagnostic Exam 1A	CARS Reading Comprehension Diagnostic Exam	Review Tests
1	Subject-specific homework, reading, and diagnostic exams						
2	Subject-specific homework, reading, and diagnostic exams					AAMC Practice Test 1	Review Practice Test
3	Subject-specific homework, reading, and diagnostic exams						
4	Subject-specific homework, reading, and diagnostic exams					MCAT Course Test 1	Review Practice Test
5	Subject-specific homework, reading, and diagnostic exams						
6	Subject-specific homework, reading, and diagnostic exams					MCAT Course Test 2	Review Practice Test
7	Subject-specific homework, reading, and diagnostic exams						
8	Subject-specific homework, reading, and diagnostic exams					MCAT Course Test 3	Review Practice Test
9	Subject-specific homework, reading, and diagnostic exams						
10	Subject-specific homework, reading, and diagnostic exams					MCAT Course Test 4	Review Practice Test
11	Subject-specific homework, reading, and diagnostic exams						
12	Subject-specific homework, reading, and diagnostic exams. Complete unfinished ICC passages and any incomplete or optional homework.					MCAT Course Test 5	Review Practice Test
13	Subject-specific review as necessary.					AAMC Practice Test 2	Review Tests
14	Final review on topics you are unsure of, email your teachers with questions, redo <i>amplifire</i> <sup>TM</sup> modules, etc.						
<b>TAKE THE REAL MCAT!!</b>							

## Subject-Specific Syllabi and Homework Lists:

On the next several pages you will find syllabi for the different MCAT subjects. These will let you know the topic of the class, the prework you should do before, and the homework you should do after.

### Sciences

Required Homework, All Students: all reading, all *amplifire*<sup>TM</sup> modules, and all freestanding question sets in the textbooks (*MCAT Review* series texts) are required. Some of the passages (printed or online) are required.

Required Homework, Subtopic Weakness: these are passages that tend to be more content-heavy than other passages, i.e., they tend to test more memory-based concepts, or the more basic concepts, in a particular subtopic. If you have a solid understanding of a particular subtopic (i.e., your Diagnostic Exam does not indicate this is an area of weakness), these passages are optional for you; note however, that the more practice passages you complete, the better you will be all around. Remember that you will determine your personal areas of weakness by taking the Diagnostic Exams periodically throughout the course (see “About Diagnostic Exams” above and the general schedule below).

Required Homework, Subtopic Strength: these are more advanced passages that tend to be less content-heavy than other passages, i.e., they tend to test more from the passage topic or experiment than from basic concepts. If you have a weakness in a particular subtopic (i.e., your Diagnostic Exam indicates this is an area of weakness), these passages are optional for you; note however, that the more practice passages you complete, the more prepared you will be all around. You might choose to delay these passages until you have completed the course and are doing your final review before the MCAT. Remember that you will determine your personal areas of weakness by taking the Diagnostic Exams periodically throughout the course (see “About Diagnostic Exams” above and the general schedule below).

Optional Homework, All Students: additional passages you can complete as time allows or for final review before the MCAT. The passages are sorted into “Weakness” (more content-heavy passages) and “Strength” (less content-heavy passages)

### Critical Analysis and Reasoning Skills

Required Homework, All Students: all reading and all passages/exercises from the *MCAT Critical Analysis and Reasoning Skills Review* are required.

Required Homework, Low Practice Test Score: a low practice test score is a 124 or below. The first five assignments include passages that are, for the most part, at or below average difficulty level compared to other passages. These will help you improve your CARS skills before you attempt some of the harder passages. Once your practice test score rises to a 125 or above, switch to the High Score assignments. Or, if it is after Class 5, you may wish to go back and complete the harder passages in the earlier assignments for extra practice. The assignments for weeks 6 and 7 are the same for all students.

Required Homework, High Practice Test Score: a high practice test score is a 125 or above. The first five assignments consist of passages that are, for the most part, at or above average difficulty compared to other passages. They will give you practice on what would be the harder passages on the test. However, there is still value in doing and perfecting your performance on easier passages; you may wish to complete both assignments for Classes 1-5. The assignments for weeks 6 and 7 are the same for all students.

Optional Homework, All Students: additional passages you can complete as time allows. Optional homework for weeks 3-5 is categorized by “High Score” or “Low Score.” The optional homework for week 6 is the same for all students. The online practice passages are optional for these weeks because the required homework includes full CARS practice tests from the CARS Workbook. However, you are strongly encouraged to complete as many of the optional online practice passages as possible.



# BIOLOGY SYLLABUS AND HOMEWORK SCHEDULE

**Note:** Reading for Classes 1 and 2 comes from the *MCAT Biochemistry Review*; reading for all subsequent classes comes from the *MCAT Biology Review*. Reading, end of chapter questions/passages, and *amplifire*<sup>TM</sup> primer questions should be completed PRIOR TO the designated class; all other questions and passages should be completed AFTER the designated class. See above for explanations/definitions of “Required Homework” and “Optional Homework”. See page 18 for explanations/definitions of the abbreviations used.

Class	Topics and Reading	Required Homework, All Students	Required Homework, Subtopic Weakness	Required Homework, Subtopic Strength	Optional Homework, All Students
<b>TAKE BIOLOGY DIAGNOSTIC EXAM 1A</b>					
1	Biochemistry I; BCR Chapters 1-4, BR Chapter 3, do all end of chap. quest/pssgs  AMP Biology Class 1 primer questions	<ul style="list-style-type: none"> <li>• Class 1 AMP module</li> <li>• OL-BP 1</li> <li>• SWB 1</li> </ul>	<ul style="list-style-type: none"> <li>• SWB 4</li> </ul>	<ul style="list-style-type: none"> <li>• OL-BP 2, 3</li> </ul>	<ul style="list-style-type: none"> <li>• SWB 3</li> </ul>
2	Biochemistry II; BCR Chapters 5-6, do end of chap. quest/passages  AMP Biology Class 2 primer questions	<ul style="list-style-type: none"> <li>• Class 2 AMP module</li> <li>• OL-BP 5, 6, 8, 9, 10</li> </ul>	<ul style="list-style-type: none"> <li>• SWB 2, 5</li> </ul>	<ul style="list-style-type: none"> <li>• OL-BP 7</li> <li>• SWB 6, 7</li> </ul>	n/a
3	Molecular Biology; BCR Chapter 7, BR Chapters 2, 4, do end of chap quest/passages  AMP Biology Class 3 primer questions	<ul style="list-style-type: none"> <li>• Class 3 AMP module</li> <li>• OL-BP 4, 11, 12, 13, 14</li> <li>• SWB 9</li> </ul>	<ul style="list-style-type: none"> <li>• OL-BP 16</li> <li>• SWB 8</li> </ul>		<ul style="list-style-type: none"> <li>• SWB 19</li> </ul> <p><i>Strength:</i></p> <ul style="list-style-type: none"> <li>• OL-BP 15</li> </ul>
<b>TAKE BIOLOGY DIAGNOSTIC EXAM 1B AND COMPARE RESULTS TO 1A TAKE BIOLOGY DIAGNOSTIC EXAM 2A</b>					
4	Microbiology; BR Chapter 5 and Appendix I, do end of chap. quest/passage  AMP Biology Class 4 primer questions	<ul style="list-style-type: none"> <li>• Class 4 AMP modules</li> <li>• OL-BP 17, 19, 20, 21</li> <li>• SWB 10, 16</li> </ul>	<ul style="list-style-type: none"> <li>• SWB 18</li> </ul>	<ul style="list-style-type: none"> <li>• SWB 12, 13, 20, 21, 22</li> </ul>	<ul style="list-style-type: none"> <li>• SWB 11, 15</li> </ul> <p><i>Strength:</i></p> <ul style="list-style-type: none"> <li>• OL-BP 18, 22</li> <li>• SWB 14</li> </ul>
5	Eukaryotic Cells; BR Chapter 6, do end of chap. quest/passage  AMP Biology Class 5 primer questions	<ul style="list-style-type: none"> <li>• Class 5 AMP modules</li> <li>• OL-BP 24, 25, 26, 28, 29</li> <li>• SWB 24, 26, 34, 35</li> </ul>	<ul style="list-style-type: none"> <li>• SWB 25, 27, 29, 30</li> </ul>	<ul style="list-style-type: none"> <li>• OL-BP 27</li> </ul>	<ul style="list-style-type: none"> <li>• SWB 17, 36</li> </ul> <p><i>Strength:</i></p> <ul style="list-style-type: none"> <li>• OL-BP 23</li> <li>• SWB 28, 31, 32, 33</li> </ul>
6	Genetics; BR Chapter 7 and Appendix II, do end of chap quest/pssg  AMP Biology Class 6 primer questions	<ul style="list-style-type: none"> <li>• Class 6 AMP modules</li> <li>• OL-BP 32</li> <li>• SWB 38</li> </ul>	<ul style="list-style-type: none"> <li>• OL-BP 30</li> </ul>	<ul style="list-style-type: none"> <li>• OL-BP 31</li> <li>• SWB 39</li> </ul>	<p><i>Weakness:</i></p> <ul style="list-style-type: none"> <li>• SWB 40</li> </ul> <p><i>Strength:</i></p> <ul style="list-style-type: none"> <li>• OL-BP 33</li> <li>• SWB 37, 41</li> </ul>
<b>TAKE BIOLOGY DIAGNOSTIC EXAM 2B AND COMPARE RESULTS TO 2A TAKE BIOLOGY DIAGNOSTIC EXAM 3A</b>					
7	The Nervous System, Sensory Systems; BR Chapter 8.1-8.5, do end of chap quest/pssg  AMP Biology Class 7 primer questions	<ul style="list-style-type: none"> <li>• Class 7 AMP module</li> <li>• OL-BP 34, 36, 37, 38, 39, 40</li> <li>• SWB 42, 44, 47, 49</li> </ul>	<ul style="list-style-type: none"> <li>• OL-BP 35</li> <li>• SWB 46</li> </ul>	<ul style="list-style-type: none"> <li>• SWB 48, 51</li> </ul>	<ul style="list-style-type: none"> <li>• SWB 43</li> </ul> <p><i>Strength:</i></p> <ul style="list-style-type: none"> <li>• SWB 45, 50, 52, 53</li> </ul>

8	The Endocrine, Cardiovascular, and Lymphatic Systems, and Immunity; BR Chapters 8.6-9, do Ch. 9 end of chap questions/passage  AMP Biology Class 8 primer questions	<ul style="list-style-type: none"> <li>• Class 8 AMP modules</li> <li>• OL-BP 41, 43, 44, 45, 47, 48, 49, 50</li> <li>• SWB 57, 58, 59, 60, 63, 65</li> </ul>	<ul style="list-style-type: none"> <li>• OL-BP 42, 46,</li> <li>• SWB 54, 55, 67, 70</li> </ul>	<ul style="list-style-type: none"> <li>• SWB 56, 61, 64, 68</li> </ul>	<ul style="list-style-type: none"> <li>• OL-BP 60</li> </ul> <p><i>Weakness:</i></p> <ul style="list-style-type: none"> <li>• SWB 66</li> </ul> <p><i>Strength:</i></p> <ul style="list-style-type: none"> <li>• SWB 62, 69</li> </ul>
<b>TAKE BIOLOGY DIAGNOSTIC EXAM 3B AND COMPARE RESULTS TO 3A TAKE BIOLOGY DIAGNOSTIC EXAM 4A</b>					
9	The Excretory and Digestive Systems; BR Chapter 10, do end of chapter quest/pssg  AMP Biology Class 9 primer questions	<ul style="list-style-type: none"> <li>• Class 9 AMP module</li> <li>• OL-BP 51, 52, 54</li> <li>• SWB 72, 73</li> </ul>	<ul style="list-style-type: none"> <li>• OL-BP 55</li> <li>• SWB 74, 75</li> </ul>	<ul style="list-style-type: none"> <li>• OL-BP 53, 56</li> <li>• SWB 71</li> </ul>	n/a
10	The Muscular, Skeletal, and Respiratory Systems, Skin; BR Chapters 11-12, do end of chapter questions/passages  AMP Biology Class 10 primer questions	<ul style="list-style-type: none"> <li>• Class 10 AMP modules</li> <li>• OL-BP 57, 58, 59, 61, 66</li> <li>• SWB 76, 77, 81, 83</li> </ul>	<ul style="list-style-type: none"> <li>• OL-BP 64</li> <li>• SWB 78, 80, 85</li> </ul>	<ul style="list-style-type: none"> <li>• OL-BP 62, 63, 65</li> <li>• SWB 82, 84</li> </ul>	<p><i>Strength:</i></p> <ul style="list-style-type: none"> <li>• SWB 79, 86</li> </ul>
11	The Reproductive Systems, and Development; BR Chapter 13, do end of chapter quest/pssg  AMP Biology Class 11 primer questions	<ul style="list-style-type: none"> <li>• Class 11 AMP modules</li> <li>• OL-BP 67, 71, 72, 73</li> <li>• SWB 87, 91, 94</li> <li>• Unfinished ICC psgs.</li> </ul>	<ul style="list-style-type: none"> <li>• OL-BP 68</li> <li>• SWB 89, 90</li> </ul>	<ul style="list-style-type: none"> <li>• OL-BP 69, 70</li> <li>• SWB 88, 92</li> </ul>	<p><i>Strength:</i></p> <ul style="list-style-type: none"> <li>• SWB 23, 93</li> </ul>
<b>TAKE BIOLOGY DIAGNOSTIC EXAM 4B AND COMPARE RESULTS TO 4A</b>					

# GENERAL CHEMISTRY SYLLABUS AND HOMEWORK SCHEDULE

**Note:** All reading comes from the *MCAT General Chemistry Review*; reading, end of chapter questions/passages, and *amplifire*<sup>TM</sup> primer questions should be completed PRIOR TO the designated class; all other questions and passages should be completed AFTER the designated class. See above for explanations/definitions of “Required Homework” and “Optional Homework”. See page 18 for explanations/definitions of the abbreviations used.

Class	Topics and Reading	Required Homework, All Students	Required Homework, Subtopic Weakness	Required Homework, Subtopic Strength	Optional Homework, All Students
<b>TAKE GENERAL CHEMISTRY DIAGNOSTIC EXAM 1A</b>					
1	Background; Moles and Stoichiometry; Atomic Structure and Periodic Trends; Chps 1-3, 4.1-4.3, 4.5-4.8, do Ch. 4 end of chapter quest/pssg  AMP GChem Class 1 primer questions	<ul style="list-style-type: none"> <li>• Class 1 AMP modules</li> <li>• OL 3</li> <li>• SWB 9</li> </ul>	<ul style="list-style-type: none"> <li>• OL 1</li> <li>• SWB 1, 7, 8</li> </ul>	<ul style="list-style-type: none"> <li>• OL 2</li> <li>• SWB 2, 5</li> </ul>	<i>Weakness:</i> <ul style="list-style-type: none"> <li>• OL 4, 5</li> <li>• SWB 6</li> </ul> <i>Strength:</i> <ul style="list-style-type: none"> <li>• OL 4, 5</li> <li>• SWB 3, 4</li> </ul>
2	Bonding and Intermolecular Forces; Thermodynamics, Chps 5-6, do end of chapter questions/pssgs  AMP GChem Class 2 primer questions	<ul style="list-style-type: none"> <li>• Class 2 AMP modules</li> <li>• OL 6, 7</li> <li>• SWB 11, 19, 23, 24</li> </ul>	<ul style="list-style-type: none"> <li>• SWB 12, 13</li> </ul>	<ul style="list-style-type: none"> <li>• SWB 10, 16, 22</li> </ul>	<i>Weakness:</i> <ul style="list-style-type: none"> <li>• SWB 14, 17, 25</li> </ul> <i>Strength:</i> <ul style="list-style-type: none"> <li>• SWB 15, 18, 20, 21</li> </ul>
<b>TAKE G-CHEM DIAGNOSTIC EXAM 1B (COMPARE TO 1A); TAKE G-CHEM DIAGNOSTIC EXAM 2A</b>					
3	Phases; Gases; Chps 7-8, do end of chapter questions/pssgs  AMP GChem Class 3 primer questions	<ul style="list-style-type: none"> <li>• Class 3 AMP modules</li> <li>• OL 8, 11</li> <li>• SWB 28, 30, 34, 37</li> </ul>	<ul style="list-style-type: none"> <li>• OL 10</li> <li>• SWB 26</li> </ul>	<ul style="list-style-type: none"> <li>• OL 9, 12</li> <li>• SWB 31, 32</li> </ul>	<i>Weakness:</i> <ul style="list-style-type: none"> <li>• OL 13, 14</li> <li>• SWB 27, 29, 33</li> </ul> <i>Strength:</i> <ul style="list-style-type: none"> <li>• SWB 35, 36</li> </ul>
4	Kinetics; Equilibrium, Chps 9-10, do end of chapter questions/pssgs  AMP GChem Class 4 primer questions	<ul style="list-style-type: none"> <li>• Class 4 AMP modules</li> <li>• OL 18, 20, 21</li> <li>• SWB 38, 41, 43</li> </ul>	<ul style="list-style-type: none"> <li>• OL 19</li> <li>• SWB 44, 45</li> </ul>	<ul style="list-style-type: none"> <li>• OL 16, 23</li> <li>• SWB 39, 40</li> </ul>	<i>Weakness:</i> <ul style="list-style-type: none"> <li>• SWB 46</li> </ul> <i>Strength:</i> <ul style="list-style-type: none"> <li>• OL 15, 17, 22</li> <li>• SWB 42, 47</li> </ul>
<b>TAKE G-CHEM DIAGNOSTIC EXAM 2B (COMPARE TO 2A); TAKE G-CHEM DIAGNOSTIC EXAM 3A</b>					
5	Acids and Bases; Chapter 11, do end of chapter questions/pssg  AMP GChem Class 5 primer questions	<ul style="list-style-type: none"> <li>• Class 5 AMP modules</li> <li>• OL 28, 31</li> <li>• SWB 48, 51, 55, 56</li> </ul>	<ul style="list-style-type: none"> <li>• OL 26, 30</li> <li>• SWB 49, 54</li> </ul>	<ul style="list-style-type: none"> <li>• OL 29, 32</li> <li>• SWB 50, 58</li> </ul>	<i>Weakness:</i> <ul style="list-style-type: none"> <li>• OL 24, 27</li> <li>• SWB 52, 53, 57</li> </ul> <i>Strength:</i> <ul style="list-style-type: none"> <li>• OL 25, 33</li> <li>• SWB 53</li> </ul>
6	Redox and Electrochemistry; Chapter 12, do end of chapter quest/pssg  Radioactive Decay; Section 4.4  AMP GChem Class 6 primer questions	<ul style="list-style-type: none"> <li>• Class 6 AMP modules</li> <li>• OL 35, 37</li> <li>• Redox 62, 66, 67, 76, 78</li> </ul>	<ul style="list-style-type: none"> <li>• OL 34</li> <li>• SWB 64, 68, 73</li> </ul>	<ul style="list-style-type: none"> <li>• OL 36</li> <li>• SWB 60, 69, 75</li> </ul>	<i>Weakness:</i> <ul style="list-style-type: none"> <li>• OL 38</li> <li>• SWB 63, 70, 71, 72, 74, 77, 80</li> </ul> <i>Strength:</i> <ul style="list-style-type: none"> <li>• OL 38</li> <li>• SWB 59, 61, 65, 79, 81, 82</li> </ul>
<b>TAKE GENERAL CHEMISTRY DIAGNOSTIC EXAM 3B (COMPARE TO 3A)</b>					

# **Enroll MCAT<sup>®</sup> Ultimate to View the Full Version**

[www.princetonreview.com/medical/mcat-ultimate-course](http://www.princetonreview.com/medical/mcat-ultimate-course)

