

## **Biology 1040: DAT PREPARATION SPRING 2021 SYLLABUS**

### **Teaching Assistants (TAs):**

John Fairbanks      [john.fairbanks14@icloud.com](mailto:john.fairbanks14@icloud.com)      (Mondays)  
Kort Fuller          [kort.fuller@aggiemail.usu.edu](mailto:kort.fuller@aggiemail.usu.edu)      (Wednesdays)

### **SUPERVISING FACULTY MEMBER**

D. Andy Anderson    [andy.anderson@usu.edu](mailto:andy.anderson@usu.edu)

### **COURSE MEETING TIMES**

**Monday and Wednesday via Live Zoom Broadcast                      3:30-5:20 pm**

### **COURSE FEE and ENROLLMENT**

There is a course fee of \$133.00 per student to pay for the TA salaries and at least 15 students must be enrolled and participate in the class for the class to be offered (it takes at least 15 students to pay the TAs salaries).

There will be four Saturdays throughout the semester in which you will have the chance to take full-length practice DAT exams. Students will be informed of the details prior to the test days.

**Note: In order to receive a “P” for the course you must attend 23 of the 27 periods and three of the four Saturday practice exams (the first practice test and at least two of the final three). Two weekly participation quizzes will be due every Friday to account for attendance of the two recorded lectures each week (quiz passwords will be provided during lectures). Full length test completions will be determined via screenshot or score report sent to the TAs.**

### **Optional Fridays**

We will be uploading short weekly videos addressing issues regarding applications. Topics such as Personal Statements, How to get letters of Recommendations, what to look for in schools, Interview strategies, and more. The purpose of these short videos is to aid students in all aspects of their Dental School application process. **THESE VIDEOS ARE NOT REQUIRED.** However, students will most likely find them very helpful.

## **COURSE OVERVIEW**

This course is for pre-dental students preparing to take the Dental Admissions Test in the upcoming year. It should be taken as a supplement to the student's studies and not as a sole means of preparation. During class the instructors will present important information on the DAT and teach important test-taking strategies and skills. In addition, students will be given practice problems to test their understanding of each topic. Each student should come prepared to discuss the material that will be presented for that day by completing reading assignments given in class. This class is meant to be a brief review of the majority of the material that will be on the DAT. The best way for an individual to take advantage of this class is to be prepared for class and set aside time for review and practice. The DAT will be a primary criterion for an applicant's acceptance into dental school. Students will also make a list of schools they have interest in attending and each student will present general information on that school to the class. Toward the end of the semester, we will also go over interview questions and how to prepare for dental school interviews. We will also spend time setting up a study schedule to individually prepare for the DAT.

## **COURSE GOALS**

This course will provide students with a sound understanding of all the sections on the DAT and help them to build the testing skills necessary to excel in each section. In addition, it will provide students a good review of the concepts that are most commonly seen on the actual test day. The class should be used as a measuring stick to gauge an individual's understanding of material that will be on the DAT. Other topics including application process, AADSAS, how to select schools to apply to, and interviewing procedures will also be discussed.

## **REQUIRED MATERIALS**

The instructors have decided not to provide these materials through the bookstore because it will be less expensive for students to buy them for themselves. All materials can be found on the internet or from other dental students who have taken the DAT.

2020-2021 ADEA Official Guide to Dental Schools

“How to get into Dental School” by Alexander Takshyn

### *CLASS SUBSCRIPTION TO DAT BOOTCAMP*

Cost: \$30-\$40

To aid in classroom instruction of reviewing the materials that will be on the DAT, we have asked the students who enroll in this class to be prepared to split the cost of a single class subscription of DAT Bootcamp. This subscription will be used to help review and prepare the students for specific sections of the DAT throughout the semester. This amount will vary depending on how many students enroll in the course for the semester.

## SUGGESTED MATERIALS

While these will not be required for the class, these are the tools that the instructors believe are necessary to be able to score well on the DAT. It seems expensive, but these self-study materials will save lots of money compared to an off-campus prep course.

### *DAT Destroyer/Math Destroyer*

\$200 for both

This is a good investment because you can sell it to one of your peers when you're finished with it. Any edition within the last 4 or 5 years will be acceptable. If you want to save money, try to buy it from another dental student who has already taken the DAT. This is a book full of practice questions and solutions.

### *Youtube Khan Academy GED Math Course*

Free

Additional help for efficiently answering questions from the Quantitative Reasoning section.

### *Dr. Romano's DAT Destroyer Quantitative Reasoning Youtube Playlist*

Free

Free QR video playlist from the creator of DAT Destroyer.

<https://www.youtube.com/playlist?list=PL2wqpwB2R5wPD0ctO9WARZAx1f-x7gAs4>

### *DAT Bootcamp*

Cost \$497

This program allows you access to 10 different practice exams for each section of the DAT. We will use PAT generators from DAT Bootcamp that will set a foundation of expectations of the actual DAT.

### *Chad's Prep*

Series of additional videos to use for free and five full length practice exams. It is free up to a certain level.

<https://courses.chadsprep.com/courses/chads-dat-practice-exams>

### *Cliffs AP Biology Notes*

Cost: Free PDF

Start with this in your biology review, then check your notes with Feralis' notes.

### *Ferrali's Biology Notes*

Cost: Free on DAT Bootcamp

A student put together a comprehensive guide to the DAT biology information. Anything you need to know for the DAT biology section will be on these notes.

## **PRACTICE TESTS**

A total of four practice test opportunities are offered during the semester. They will be offered on the Saturdays specified in the day-by-day schedule. These tests are part of the requirements to pass the class, they will take up to 5-8 hours long (if you require accommodations) so you should plan accordingly. Once again, it is mandatory that you attend the first practice test and at least two of the final three.

## **GRADES**

The course is graded pass/fail and is worth one credit. The grade is based on attendance and the student must attend 85% (23 out of 27) of the classes and three of the four Saturday practice test opportunities (the first practice test and at least two of the final three). Students must participate in the tests on the days specified on the syllabus. Family events, work, or similar responsibilities will not excuse an absence (unless you have contacted and received permission to submit the test on another day from either John or Kort). Attendance will be recorded through two weekly on-line quizzes (passcode to quizzes provided during Monday and Wednesday lectures) due every Friday. These quizzes are graded only on participation, but students should still provide their best effort as it will only help prepare them. Completing the in-class quiz for proving attendance is mandatory! If a student does not participate in at least the minimum number of classes or does not take the minimum number of Saturday tests, the student will receive an "F."

## **STUDENTS WITH DISABILITIES**

Students with physical, sensory, emotional or medical impairments may be eligible for reasonable accommodations in accordance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973. All accommodations are coordinated through the Disability Resource Center (DRC) in Room 11 of the University Inn, 797-2444, 797-0740 TTY, or toll free at 1-800-259-2966. Please contact the DRC as early in the semester as possible. Alternate format materials (Braille, large print or digital) are available with advance notice.

## **UNACCEPTABLE CLASSROOM BEHAVIOR**

Since a significant goal of this class is to prepare each of you for the upcoming DAT, behavior that disrupts the classroom environment will be discouraged.

1. Once class has started, cell phones must be silenced and no non-class related conversations or texting are permitted.

## DAT PREP SCHEDULE

Date	Material To Cover	Resource	Important Dates
<b>20 -Jan</b>	1. Introduction to Instructors and DAT (Dentpin registration) 2. TimeLine of Application Process	DAT BC	Register for Dentpin
<b>25 - Jan</b>	1. PAT - AR* 2. Mike's videos - GC Chapter 1- Stoich 3. Biology Chapter 1-Molecules and Fundamentals of Bio	DAT BC Ferrali's notes Mike's Videos	
<b>27 - Jan</b>	1. PAT - Keyhole 2. Mike's videos GC Ch. 2 - Atomic and Electronic 3. Biology Chapter 2- Cells and Organelles	DAT BC Ferrali's notes Mike's Videos	
<b>01 - Feb</b>	1. PAT - AR 2. Mike's Videos GC Ch. 2 Practice Problems 3. Biology Chapter 3- Cellular Energy	DAT BC Ferrali's notes Mike's Videos	
<b>03 - Feb</b>	1. PAT – Keyhole 2. Mike's Videos GC Ch. 3 – Molecular Structure 3. Biology Chapter 4- Photosynthesis	DAT BC Ferrali's notes Mike's Videos	
<b>06 – Feb</b>	<b>SATURDAY: Practice Test 1</b>	2007 ADEA DAT	
<b>08 - Feb</b>	1. PAT - AR 2. Mike's Videos GC Ch. 4 Periodic Trends 3. Biology Chapter 5- Cell Division	DAT BC Ferrali's notes Mike's Videos	(Last Day to drop w/out annotation)
<b>10 - Feb</b>	1. PAT Keyhole 2. Mike's Videos GC Ch. 4 Periodic Trends Problems 3. Biology Chapter 6- Molecular Genetics	DAT BC Ferrali's notes Mike's Videos	
<b>15 - Feb</b>	Presidents Day- No Class		

<b>17 - Feb</b>	<ol style="list-style-type: none"> <li>PAT AR</li> <li>Mikes Videos - Ch. 5 – Gases</li> <li>Biology Chapter 7- Heredity</li> </ol>	DAT BC Ferrali's notes Mike's Videos	
<b>22 - Feb</b>	<ol style="list-style-type: none"> <li>PAT Keyhole</li> <li>Mikes Videos - Ch. 5 – Gases Problems</li> <li>Biology Chapter 8- Lab Techniques</li> </ol>	DAT BC Ferrali's notes Mike's Videos	
<b>24 - Feb</b>	<ol style="list-style-type: none"> <li>PAT - AR</li> <li>Mike's Videos Ch. 6 - Liquids and Solids</li> <li>Biology Chapter 9- Diversity of Life</li> </ol>	DAT BC Ferrali's notes Mike's Videos	
<b>01 - Mar</b>	<ol style="list-style-type: none"> <li>PAT Keyhole</li> <li>Mike's Videos Ch. 6 - Liquids and Solids Problems</li> <li>Biology Chapter 10- Plants</li> </ol>	DAT BC Ferrali's notes Mike's Videos	
<b>03 - Mar</b>	<ol style="list-style-type: none"> <li>PAT - AR</li> <li>Mike's Videos Ch. 7 - Chemical Solutions</li> <li>Biology Chapter 11.1- Circulatory System</li> </ol>	DAT BC Ferrali's notes Mike's Videos	
<b>08 - Mar</b>	<ol style="list-style-type: none"> <li>PAT Keyhole</li> <li>Mike's Videos Ch. 8 - Chemical Kinetics</li> <li>Biology Chapter 11.2- Respiratory System</li> </ol>	DAT BC Ferrali's notes Mike's Videos	
<b>10 - Mar</b>	<ol style="list-style-type: none"> <li>Full Science Test</li> <li>Review</li> </ol>		
<b>13 - Mar</b>	<b>SATURDAY: Practice Test 2</b>		
<b>15 - Mar</b>	<ol style="list-style-type: none"> <li>PAT - AR</li> <li>Mike's Videos Ch. 8 - Chemical Kinetics Problems</li> <li>Biology Chapter 11.3- Human Immune System</li> </ol>	DAT BC Ferrali's notes Mike's Videos	
<b>17 - Mar</b>	<ol style="list-style-type: none"> <li>Mike's Videos Ch. 9 - Chemical Equilibria</li> <li>Biology Chapter 11.4- Nervous System</li> </ol>	Math Destroyer	
<b>22 - Mar</b>	<ol style="list-style-type: none"> <li>PAT – Keyhole</li> <li>Mike's Videos Ch. 9 - Chemical Equilibria Problems</li> <li>Biology Chapter 11.5- Muscular System</li> </ol>	DAT BC Ferrali's Notes Mike's Videos	
<b>24 - Mar</b>	<ol style="list-style-type: none"> <li>Mike's Videos Ch. 10 - Acid Base Equilibria</li> <li>Biology Chapter 11.6- Skeletal System</li> </ol>	DAT BC Ferrali's notes Mike's Videos	(Last day to drop with a "W")

<b>29 - Mar</b>	<ol style="list-style-type: none"> <li>1. PAT - AR</li> <li>2. Mike's Videos Ch. 10 - Acid Base Equilibria</li> <li>3. Biology Chapter 11.7- Endocrine System</li> </ol>	DAT BC Ferrali's notes Mike's Videos	
<b>31 - Mar</b>	<ol style="list-style-type: none"> <li>1. PAT - Keyhole</li> <li>2. Mike's Videos Ch. 11 – Thermodynamics</li> <li>3. Biology Chapter 11.8- Digestive System</li> </ol>	DAT BC Ferrali's notes Mike's Videos	
<b>05 - Apr</b>	<ol style="list-style-type: none"> <li>1. PAT - AR</li> <li>2. Mike's Videos Ch. 11 – Thermodynamics Problems</li> <li>3. Biology Chapter 11.9- Excretory System</li> </ol>	DAT BC Ferrali's notes Mike's Videos	
<b>07 - Apr</b>	<ol style="list-style-type: none"> <li>1. PAT - Keyhole</li> <li>2. Mike's Videos Ch. 12 – Electrochemistry</li> <li>3. Biology Chapter 11.10- Integumentary System</li> </ol>	DAT BC Ferrali's notes Mike's Videos	
<b>10-Apr</b>	<b>SATURDAY: Practice Test 3</b>		
<b>12 - Apr</b>	<ol style="list-style-type: none"> <li>1. PAT - AR</li> <li>2. Mike's Videos Ch. 12 – Electrochemistry Problems</li> <li>3. Biology Chapter 12- Reproduction and Developmental Biology</li> </ol>	DAT BC Ferrali's notes Mike's Videos	
<b>14 - Apr</b>	<ol style="list-style-type: none"> <li>1. PAT - Keyhole</li> <li>2. Mike's Videos Ch. 13 - Nuclear Rxns</li> <li>3. Biology Chapter 13- Evolution</li> </ol>	DAT BC Ferrali's notes Mike's Videos	
<b>17 - Apr</b>	<b>SATURDAY: Practice Test 4</b>		
<b>19 - Apr</b>	<ol style="list-style-type: none"> <li>1. PAT - AR</li> <li>2. Mike's Videos Ch. 13 - Nuclear Rxns Problems</li> <li>3. Biology Chapter 14- Ecology</li> </ol>	DAT BC Ferrali's notes Mike's Videos	
<b>21 - Apr</b>	<ol style="list-style-type: none"> <li>1. PAT – Keyhole</li> <li>2. Gen Chem Practice Test</li> <li>3. Biology Chapter 15- Animal Behavior</li> </ol>	DAT BC Ferrali's notes Mike's Videos	
<b>26 - Apr</b>	<ol style="list-style-type: none"> <li>1. PAT - AR</li> <li>2. Practice Test Review</li> </ol>	DAT BC Ferrali's notes Mike's Videos	