UNIVERSITY OF SOUTH FLORIDA
COLLEGE OF PUBLIC HEALTH
Foundations of Public Health Immunology
(Internet-based Course)
HSC 4504
Fall Semester, 2010

Instructor: Rahul Mhaskar, MPH
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Office Hours: By appointment
Virtual Hours: By appointment (Blackboard Virtual Chat)
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Graduate Assistant: Kemesha Gabbidon
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Fax Number: (813) 974-8506
Class Hours: Anytime, with one on-line synchronous final exam required
Class Location: Anywhere, delivery by Internet, based on the Tampa campus
Web Location: http://my.usf.edu
Course Dates: August 23, 2010 through Dec 10, 2010
Credit Hours: 3 semester hours

Delivery Format: This course is a web-based course available at http://my.usf.edu. Flash presentations, multimedia activities, and internet resources are available on-line through Blackboard. A textbook is required.

Course Description: Immunology as applied to Public Health. The emphasis in this course is upon an introduction to the principles of immunology. This course also covers the applications of immunology and immunologic techniques used in the surveillance, prevention and control of diseases of public health importance. A rudimentary knowledge of human immunology is presumed for this introductory course.
The primary goals of this course are to familiarize the student with basic principles of immunology. Students who successfully complete this course will understand and be able to utilize the principles of detection, diagnosis, prevention and control of infectious disease through immunologic means.

**Course Objectives:** Students successfully completing this course will be able to:

1. Differentiate the components and functions of innate and adaptive immunity
2. Differentiate the functions of humoral and cell-mediated immunity
3. Discuss disorders related to immune system deficiencies/abnormalities
4. Discuss current global health issues, such as malnutrition and AIDS, and their relationship to immunity
5. Differentiate the infectious diseases that impair immune system function
6. Discuss the interactions between microorganisms and the immune system, including microbial/parasitic evasion strategies and immune system responses
7. Discuss the detrimental effects of immune responses including organ rejection, hypersensitivity reactions, and autoimmunity
8. Discuss the influence of cultural and societal beliefs that impact vaccines, organ transplantation, and allergies.

**Course Format:** Students are responsible for accessing the Blackboard site for course materials, essay, multimedia presentations, videos, messages and announcements. The course is organized into five major blocks, each two-three weeks in length.

- **Aug 23 – Aug 30:** Introduction to Course Format
- **Aug 31 – Sept 13:** Block I: The Basics
- **Sept 14 – Sept 27:** Block II: Innate Immunity
- **Sept 28 – Oct 18:** Block III: Adaptive Immunity (Antibody Mediated)
- **Oct 19 – Nov 8:** Block IV: Adaptive Immunity (Cell Mediated)
- **Nov 9 – Nov 29:** Block V: Diseases of the Immune System
- **Nov 30 – Dec 3:** Study Break/Extra Credit Quiz
- **Dec 4 – Dec 10:** Final Exam (submit before Friday, Dec 10 @ 5 PM)

**Course Schedule**

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Topic</th>
<th>Readings</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Aug 23–Aug 30</td>
<td><strong>Introduction</strong></td>
<td>Syllabus</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Post your mini-bio to the discussion board, complete pre-test &amp; contact info quizzes by Aug 30!</td>
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<tr>
<td>2</td>
<td>Aug 31 – Sept 6</td>
<td><strong>BLOCK I: INNATE IMMUNITY</strong></td>
<td>p. 1 - 8</td>
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<tr>
<td></td>
<td></td>
<td>Immunology Principles</td>
<td></td>
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<td></td>
<td></td>
<td>Week 2 Crossword Activity due by 11:55 PM Sept 7</td>
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<tr>
<td>3</td>
<td>Sept 7 – Sept 13</td>
<td><strong>Anatomy &amp; Cells of the Lymphoid System</strong></td>
<td>p. 9 - 20</td>
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<tr>
<td></td>
<td></td>
<td>Week 3 Osmosis Jones Activity due by 11:55 PM Sept 13</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Block Quiz #1 due by 11:55 PM Sept 13</td>
<td></td>
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<tr>
<td>Week</td>
<td>Date Range</td>
<td>Topic</td>
<td>Activity Due by</td>
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<tr>
<td>4</td>
<td>Sept 14 – Sept 20</td>
<td><strong>BLOCK II: INNATE IMMUNITY</strong>&lt;br&gt;<strong>Innate Barriers, Inflammation, &amp; Nutrition</strong>&lt;br&gt;Week 4 Heroes for Health Activity</td>
<td>Sept 20</td>
</tr>
<tr>
<td>5</td>
<td>Sept 21 – Sept 27</td>
<td><strong>Complement Cascade</strong>&lt;br&gt;Week 5 Complement Cascade Activity&lt;br&gt;&lt;br&gt;<strong>Block Quiz #2 due by 11:55 PM Sept 27</strong></td>
<td>Sept 27</td>
</tr>
<tr>
<td>8</td>
<td>Oct 12 – Oct 18</td>
<td><strong>Vaccines &amp; Evasion Strategies</strong>&lt;br&gt;&lt;br&gt;<strong>Block Quiz #3 due by 11:55 PM Oct 18</strong></td>
<td>Oct 18</td>
</tr>
<tr>
<td>10</td>
<td>Oct 26 – Nov 1</td>
<td><strong>Antigen processing &amp; recognition</strong></td>
<td>Nov 1</td>
</tr>
<tr>
<td>11</td>
<td>Nov 2 – Nov 8</td>
<td><strong>Effector mechanisms</strong>&lt;br&gt;Week 11 <strong>Block Quiz #4 due by 11:55 PM Nov 8</strong></td>
<td>Nov 8</td>
</tr>
<tr>
<td>12</td>
<td>Nov 9 – Nov 15</td>
<td><strong>BLOCK V: DISEASES OF IMMUNE SYSTEM</strong>&lt;br&gt;Autoimmunity, Tumors &amp; Transplants&lt;br&gt;Week 12 Transplantation Activity</td>
<td>Nov 15</td>
</tr>
<tr>
<td>13</td>
<td>Nov 16 – Nov 22</td>
<td><strong>Hypersensitivity</strong>&lt;br&gt;Week 13 Crossword Activity</td>
<td>Nov 22</td>
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<tr>
<td>14</td>
<td>Nov 23 – Nov 29</td>
<td><strong>Congenital &amp; Acquired Immunodeficiencies</strong>&lt;br&gt;Week 14 Bubble Boy Activity&lt;br&gt;&lt;br&gt;<strong>Block Quiz #5 due by 11:55 PM Nov 29</strong></td>
<td>Nov 29</td>
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<tr>
<td>15</td>
<td>Nov 30 – Dec 3</td>
<td><strong>Study Break/Extra Credit Quiz (Optional due by 5.00PM on Dec 3) ONLY ONE ATTEMPT IS ALLOWED.</strong></td>
<td>Dec 3</td>
</tr>
<tr>
<td>16</td>
<td>Dec 4 – Dec 10</td>
<td><strong>Final Exam (due by 5:00 PM Friday, Dec 10)</strong>&lt;br&gt;<strong>ONLY ONE ATTEMPT IS ALLOWED.</strong></td>
<td>Dec 10</td>
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</tbody>
</table>
**Instructional Strategies:** Flash presentations will be posted for each week and will include an audio component. Required readings will be assigned from the textbook and supplemental websites. Videos and interactive multimedia (available through Blackboard) will enhance the course. Students will work individually, but will use Blackboard for student discussions and assignments, as well as to submit quizzes and exams.

**Textbook:** The required textbook for this course is:

We recommend students to use third edition of this book. But any edition beyond third edition can also be used.

The textbook is available on-campus at the Health Sciences Center Bookstore. An on-line order form is also available from the HSC Bookstore at the following address: [HSC Bookstore Order Form](#).

You also may purchase the book on-line from [www.amazon.com](http://www.amazon.com), [www.barnesandnoble.com](http://www.barnesandnoble.com), [www.half.com](http://www.half.com), or other sources.

**Course Material:** The course material will consist of the online Flash presentations, readings from the book, and occasional additional web-based reading materials. **All of these materials are potential quiz and final exam material.** The general chapters for each presentation will be given; however, exact page numbers will not always be provided.

**Grading Scale:**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>≥90%</td>
</tr>
<tr>
<td>B</td>
<td>80-89%</td>
</tr>
<tr>
<td>C</td>
<td>70-79%</td>
</tr>
<tr>
<td>D</td>
<td>60-69%</td>
</tr>
<tr>
<td>F</td>
<td>&lt;60%</td>
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**Course grade points ending in 0.5 and above will be rounded up and below 0.5 will be rounded down. The +/- scale will not be used. Satisfactory/Unsatisfactory grades will not be given.**

**Grading System:** The final letter grade will be determined by five block quizzes, activity quizzes and essay, and a cumulative final exam. This course may not be graded with the Sat/Unsat option.

<table>
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<tr>
<th>Grading System Summary</th>
<th>Individual Weight</th>
<th>Total (points)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activities (10)</td>
<td>4%</td>
<td>40</td>
</tr>
<tr>
<td>Block Quizzes (5)</td>
<td>5%</td>
<td>25</td>
</tr>
<tr>
<td>Essay (1)</td>
<td>10%</td>
<td>10</td>
</tr>
<tr>
<td>Comprehensive Final Exam</td>
<td>25%</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 points</td>
</tr>
</tbody>
</table>
Activity Quizzes will change each week and will consist of puzzles, videos, &/or practice questions that will review concepts from the textbook or additional materials. There will be 10 activities over the course of the semester, with each activity quizzes worth 4 points (40 total points). Activity quizzes will be available for the entire block, but must be completed by the scheduled deadline. They also may be submitted multiple times (up to 5 times) prior to the deadline to achieve full credit.

Block Quizzes will consist of objective style questions and will cover all material presented, including videos, as well as all assigned and web-based readings. The quizzes will each be worth 5 points (25 total points). Each timed quiz is worth 5 points or 5% of the final grade. Block Quizzes will only be available during the last week of each block prior to the deadline (from Monday to Sunday). Block Quizzes may only be taken once. Quizzes will be graded automatically by Blackboard & your score will appear immediately in the gradebook after successful submission. An exclamation point in the gradebook means that you have NOT turned the quiz in on time, as you likely have exceeded the time limit. A padlock symbol in the gradebook indicates that you have opened the quiz/activity & are in progress. If your grade does not automatically appear after submission, contact Technical Assistance for further information.

Essay: This will be on a topic randomly assigned to students. The students are required to submit an essay on the topic assigned to them. THE ESSAY SHOULD BE OF ONE PAGE LENGTH (EXCLUDING THE REFERENCES) AND WRITTEN USING THE ‘TIMES NEW ROMAN’ FONT OF SIZE 11. The pages should have margins set at 0.5 INCHES ON ALL FOUR SIDES AND SINGLE SPACED. The essay should have AT LEAST 5 REFERENCES cited at the end. Please use the “NUMBERED” style formatting for references. Please obtain extra information about using reference manager software for inserting references using the “NUMBERED” format at the following web link: [http://www.endnote.com/support/](http://www.endnote.com/support/). The references have to be FROM FIVE DIFFERENT PEER REVIEWED JOURNAL ARTICLES. There will be 1 ESSAY WORTH 10 POINTS. THE ESSAY MAY BE SUBMITTED ONLY ONCE. The students are encouraged to utilize the resources listed 'Resources for scientific writing' document to enhance their writing skills. The essay will be a required activity during Week 7 of the course.

Final Exam: The Final Exam will be a timed, comprehensive, objective exam delivered on-line through the course website. The Final Exam is cumulative and will be available from Dec 4 through Dec 10. The exam will have 50 questions, and you will have 3 consecutive hours to complete the exam once you open it. You must submit the Final Exam before Friday, Dec 10 at 5:00 PM. No exceptions will be made for late exams since the Final will be available for several days. The Final is worth 25% of the grade (total of 25 points).

Class Structure: The course will consist of five blocks, broken down into weekly sessions, which will include a presentation, required readings, and multimedia components. The presentations, reading assignments, activities will be available for the entire block at once; however, activities must be submitted by the end of the scheduled week of the block (see Course Calendar). Discussion boards will only be open during the assigned weeks on the schedule. Assignments, discussion postings, and quizzes must be submitted by the scheduled deadlines on the course website. Please note that these presentations and videos may be large files that may take some time to download with dial up internet access.
Course Expectations: Students are expected to read and understand the syllabus and course calendar. Students are also expected to keep up with the course materials, activities, discussions, and the quizzes, as outlined in the course calendar. Each student must maintain My Messages (in Blackboard) contact with the instructor throughout the semester. Also, notify the instructor promptly if you are having comprehension difficulties with the material. Finally, because this is an online course, the activity quizzes, the block quizzes and the final exam are "open book"; however, students are not allowed to ask for or to provide answers to other students.

By submitting each activity and quiz, the student attests to the following statement: "By submitting this activity or quiz electronically, I certify that I have neither sought nor received outside aid on this quiz. In addition, I certify that I have neither sought nor received any information about the content of the quiz questions prior to taking this quiz." Violations of this pledge will invoke the University of South Florida policy regarding plagiarism, cheating, and academic dishonesty and will be handled according to the penalties and consequences listed in the student handbook.

My Messages in Blackboard: Please do not hesitate to contact the instructor or TAs at any time by My Messages button in Blackboard course menu if you have questions or concerns regarding the course material or activities. But, we have some rules!!

1. You must use My Messages button to send messages to the instructor & TAs.
2. Due to the large number of students enrolled in this course, it is required that you include the following information in all messages that you send to the instructor, TAs, and Technical Assistance support staff (see tech assist section below). We want to know who we are talking to!
   A. Your first and last name.
   B. For Activity/Block Quiz Questions: Name of quiz, question # and brief description of your concern so that we may correct problem in gradebook
   C. For technical difficulties: describe in as much detail as possible the technical difficulties that you are experiencing, including the exact error message that BlackBoard may display.

Please note that the primary means of communication from the instructor to the student is by My Messages and the Announcements sections on BlackBoard. It is strongly recommended that you frequently check both of these sources for information on the course.

Policies and Technical Assistance

Plagiarism: “Plagiarism is defined as “literary theft” and consists of the unattributed quotation of the exact words of a published text, or the unattributed borrowing of original ideas by paraphrase from a published text. On written papers for which the student employs information gathered from books, articles, web sites, or oral sources, each direct quotation, as well as ideas and facts that are not generally known to the public at large, or the form, structure or style of a secondary source must be attributed to its author by means of the appropriate citation procedure.

Only widely known facts and first-hand thoughts and observations original to the student do not require citations. Citations may be made in footnotes or within the body of the text. Plagiarism
also consists of passing off as one’s own segments or the total of another person’s work… The student who submitted the subject paper, lab report, etc., shall receive an “F” with a numerical value of zero on the item submitted, and the “F” shall be used to determine the final course grade. It is the option of the instructor to assign the student a grade of F or FF (the latter indicating dishonesty) in the course”, as stated in USF 2002-2003 Undergraduate Catalog (pages 47 – 49). Assignments may also be submitted to turnitin.com or the ‘Safe Assignment’ tool in Blackboard to verify proper citation.

**Instructor Response Policy:** Messages will be replied to within 48 hours for non-emergency questions. Messages regarding technical difficulties or emergency situations will be replied to within 24 hours, when submitted to the Need Computer Help? Link in Blackboard.

**Grading Policies:** Grades will be assigned as outlined in the grading system section (see above). Students are encouraged to contact the instructor for feedback on assignment and quiz questions. Please ask the instructor to explain the answers for questions that you do not understand, as correct spelling and grammar are extremely important for Blackboard to accurately grade assessments and mistakes may occur.

**Make-up Policy:** Any student who anticipates having trouble meeting course due dates must make arrangements with the instructor before the due date. **Make-up and/or reset quizzes/exams will include essay questions. RESET QUIZZES MAY RESULT IN POINT DEDUCTIONS.** Due dates that have passed without making arrangements with the instructor will not be extended, and the assignments and exams may not be made up.

**Late Assignment Policy:** Proper documentation will be required for any make-up exams or late assignments for reasons that arise unexpectedly (doctor’s note, etc). Late assignments, without documentation, will not be accepted.

**Extra Credit Policy:** Extra credit opportunity shall be in the form an extra credit quiz comprising of 20 questions and worth 10 points. A time of 1 hour shall be available for the completion of the quiz once started. It shall be available during the study break from Nov 30 – Dec 3 and is due by Saturday Dec 3 @ 5PM. This quiz is optional. Students can attempt this quiz ONLY ONCE. Students desirous of improving and enhancing their grade are encouraged to avail of this opportunity. Also, the quiz would give the students a fair idea of the scope and depth of the Final Exam since it will also be a cumulative exam.

**Schedule Change Policy:** Please note that the primary means of communication from the instructor to the student about schedule changes is by My Messages and the Announcements sections on Blackboard.

**Use of Public Computers:** Problems accessing the course materials, viewing required videos and multimedia presentations, and submitting assignments late due to technical difficulties experienced while using public computers (including USF computer labs) are not acceptable. Notify the instructor and ETA promptly if you experience any broken links or difficulties opening multimedia presentations. The policy for late assignments applies to problems due to use of public computers, and grades will be assigned accordingly.
Accessing Blackboard: Definition and Purpose: Blackboard is a University of South Florida supported web-based program that allows students to access course materials from any computer terminal linked to the web. Additional course materials such as lecture slides, exercises answers, and article review questions are located on the website. Only students officially enrolled in the course may obtain access to Blackboard. Students must have a Net ID account to access Blackboard. If you have not yet obtained one, please follow the instructions below.

Applying for a Net ID Account:
1. To apply for a Net ID account, go to the website
2. Click on “Sign up” for your USF account.
3. Fill in all relevant information and submit your application. You should be able to access Blackboard immediately.

Logging on to Blackboard:
1. To initiate log on to the site, go to the address
2. Enter login identification (your Net ID account username). Enter password (the default password for each user is their social security number - please do not use spaces or hyphens; or your Net ID account password, if you created it).
3. Once you've entered the site and you will see the folders for each week of the course. You may click on the headings located on the panel on the left side of the screen (e.g., Announcements; Syllabus; Videos; My Messages; Discussion Board, etc)

Getting Help with Blackboard: If you have difficulty accessing the site, please do not contact the course instructor, teaching assistant, or faculty supervisor. We can only assist you with course material once you have logged onto the site. Instead, use the Need Computer Help? link on BlackBoard or contact the Academic Computing Help Desk by one of the following method:
• Phone (813) 974-1222, or toll free in Florida 1-800-94-1222
• Web: www.acomp.usf.edu/Help/javaindex.html
• E-mail: Help-ac@usf.edu
• In Person: LIB 608 (6th floor of the Tampa Campus Library)

Technical Requirements: This course is web-based and requires a personal computer with audio capabilities that supports at least an 800 x 600 pixel screen resolution at “High Color” (i.e., 16-bit, thousands of colors, or 65,536 colors), full Internet access, a working e-mail address, and a 4.0+ browser of your choice (e.g., Netscape, Internet Explorer, AOL, Opera, etc.) with Java and Javascript enabled. Further information on browser settings and required plug-ins will be made available on-line. The majority of personal computer systems used by USF students more than meet these minimum requirements; however, students should direct any questions about the capabilities of specific personal computer systems to a qualified technician.

Presentations will be available in Adobe PDF format and you will need Adobe Acrobat Reader to view them. Please note that these presentations and videos are large files that may take some time to download with dial up internet access.
**Technical Assistance HOTLINE:** Students enrolled in online courses at the COPH will now receive technical support from the COPH Office of Educational Technology and Assessment (ETA). Should you experience a technical problem (accessing course materials, audio/video, broken links, reset submission link for assignments/quizzes) select the ‘Need Computer Help?’ link/button located on the bottom, left side of your course menu in Blackboard. A new window will open to the ETA Technology Assistance webpage.

On the ETA Technology Assistance webpage, select the link to the ‘Technical Problem Report Form’. Complete and submit the form. You will receive a reply from our staff WITHIN 24 hours, 7 days a week! During business hours (M-F 8:30am-5pm) you can select the ‘Live Text Chat’ or toll-free telephone options instead.

If you are locked out of a quiz or assignment, please contact Technical Assistance PRIOR to contacting the instructor. You will receive a reply within 24 hours. **All Quiz resets will include essay questions that must be answered in addition to the quiz, but may still not receive full credit.** ETA will provide these questions when the quiz/assignment is unlocked.

**Academic Assistance for Students with Disabilities:** Student Disability Services exists to ensure that students with disabilities have the academic support necessary to achieve academic success at the University of South Florida. Course related assistance and academic accommodations are provided to eligible students with documented disabilities. Services may include advocacy, reader services, interpreters, alternate exam administration, note takers, and adaptive equipment such as FM systems and large print computer access.

Students are encouraged to contact our office as early as possible prior to enrollment to make arrangements for appropriate services. Documentation of a disability and significant current functional impairment resulting from that disability is necessary in order for accommodations to be provided. Students should bring a current Memorandum of Accommodations from the Office of Student Disability Services.

Disability Accommodation: For information regarding qualifications for student disabilities through the Disabled Student Academic Services Office (DSA), at the University of South Florida, see the 1999-2001 USF Graduate Catalog which can be found online at download.grad.usf.edu/PDF/section14.pdf (page 4 of 6) and directly contact the DSA for arrangement of academic accommodations and assistance at (813) 974-4309, SVC 2043, Coordinator of Disabled Student Academic Services.

"I" Grade Policy: An "I" grade indicates incomplete coursework and may be awarded to graduate and undergraduate students. Undergraduate rules apply to non-degree-seeking students as well. **An "I" grade may be awarded to an undergraduate student only when a small portion of the student's work is incomplete (<30%), and only when the student is otherwise earning a passing grade.**

Until removed, the "I" is not computed in the GPA for either undergraduate or graduate students. The time limit for removing the "I" is to be set by the instructor of the course. For undergraduate students, this time limit may not exceed two academic semesters, whether or not the student is in
residence, and/or graduation, whichever comes first. "I" grades not removed by the end of the
time limit will be changed to "IF" or "IU," whichever is appropriate. If an instructor is willing, he
or she may accept work from a student after an "I" grade has changed to an IF or IU grade, and
assign the student a final grade in the course, unless the student has graduated. Whether or not
the student is in residence, any change to "IF" grades will be calculated in the cumulative GPA
and, if applicable; the student will be placed on appropriate probation or academically dismissed.

Students are not required to re-register for courses in which they are only completing
previous course requirements to change an "I" grade. However, if a student wants to audit a
course for review in order to complete course requirements, full fees must be paid.

Dates of Religious Observation: Students who anticipate the necessity of missing any lecture,
exam, or class requirement due to the observation of a major religious observance, must provide
notice of the date(s) to the instructor, in writing, by the second-class meeting. Students are not
required to attend if the lecture, exam, or assignment occurs on a day or a time prohibited by his
or her religious beliefs. In that case, accommodation for a make-up exam will be provided.

Institutional Policies & Links:

<table>
<thead>
<tr>
<th>Student Handbook</th>
<th><a href="http://www.sa.usf.edu/handbook/">http://www.sa.usf.edu/handbook/</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>USF Student Code of Conduct:</td>
<td><a href="http://www.sa.usf.edu/handbook/rights/studentcodeofconduct.htm">http://www.sa.usf.edu/handbook/rights/studentcodeofconduct.htm</a></td>
</tr>
<tr>
<td>USF Student Rights/Responsibilities</td>
<td><a href="http://www.sa.usf.edu/handbook/rights/studentrightsresponsibilities.htm">http://www.sa.usf.edu/handbook/rights/studentrightsresponsibilities.htm</a></td>
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<tr>
<td>Special Accommodations</td>
<td><a href="http://www.asasd.usf.edu/index.htm">http://www.asasd.usf.edu/index.htm</a></td>
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