In case of Emergency: Plan A: Exit North Stairwell, gather in front of Institute Building, stay for Roll Call. Plan B: meet at BAEC Stay for roll call, assist others out of the building.


2420  HUMAN PHYSIOLOGY

Instructor Information

Dr. Carla Endres
Associate Professor
carla.endres@usu.edu (mailto:carla.endres@usu.edu)

Availability

e-mail and canvas

Course Description

Functioning of the human body, with emphasis upon major organ systems. Medical and athletic examples used to illustrate important concepts. Three lectures, one lab.

Discussions

Discussions will regularly appear in canvas. For each discussion: you are required to post an original post 300-500 words (depending on assignment). The post should describe, reflect and analyze the subject matter. This may require some research, citations are required may be required in the near future. (Include where you found your information) No copy and pasting from sources allowed, this must be written in your own words.

After you post your original discussion, be sure to check back to the assignment before the due date. The second part requires you to respond to 1 or 2 (assignment dependent) posts by classmates. These should address ideas and concepts presented by your peers. You should give feedback to their ideas and elaborate on them. Responses are required to be 50-200 words (depending on the assignment). Not simply I agree. Give some substance to the content of their discussion.
Prerequisite/Restriction

Prequisite/Restriction: Any one of the following: USU 1350, BIOL 1010, BIOL 1500, BIOL 1610, BIOL 2320, BIOL 2060, CHEM 1010, CHEM 1110, CHEM 1210, AP Biology or AP Chemistry with a score of 3 or higher.

Principles of Biology, BIO 1010, is recommended prior to taking this class but it is not required. Completion of BIOL 2320 prior to enrolling would be helpful. This course is required for all nursing students and recommended for students in pre-medical, pre-dental, pre-veterinary, and other allied health pre-professional programs.

Lab Fee

Students are charged a lab fee of $80. This covers the cost of Lab Tutor, reagents and online software.

Course Resources

Text

OER: Open Stax Anatomy and Physiology. Info and link provided in Canvas (free) or you may opt to purchase for printing fee (through Amazon $52)

https://openstax.org/details/books/anatomy-and-physiology

Canvas

Canvas will be used (Web Course Tools) for the management of this class. All reserve materials, including my lectures, the syllabus, class schedule, current exam keys, and updated grade sheets, will be available through Canvas. The reserve materials will be provided to you as downloadable PDF files, which require AcrobatReader, a free program available for both PC and Mac platforms at the Adobe web site (https://get.adobe.com/reader/). To access Canvas log into My USU. Privacy is your responsibility. You will be responsible for every email and quiz submitted under your name. You will also be held accountable for every email and announcement I send through Canvas. You will want to check it regularly (at least 5 times a week). Canvas has many useful features (your assignment scores, a chat room, e-mail, etc.) and you should take the time to explore them from within our course page. I will provide more instructions on using Canvas in class.

*When you post or submit assignments into canvas, it is your responsibility to go back to make sure your post is complete and the attachments are there and visible. If they are not, you will not receive points.

Learning Objectives

By the end of this course, you will be able to:

1. Explain cell membrane function within various systems.
2. Explain functions of the human body as it relates to Anatomy.
3. Explain various body systems and their connection to health and disease.
4. Demonstrate the ability to write scientifically and prepare a scientific Project/Poster.
5. Demonstrate the ability to convey your topic clearly and accurately to the campus audience in an oral presentation.

Evaluation Methods and Criteria
Quizzes

Quizzes will be given at the end of every chapter in Canvas. The quizzes are meant to be used as a study guide, and allow you to review the material. Quizzes will be open book/open notes. You will have 1 week to complete the Chapter quiz once it is posted on Canvas. Quizzes will NOT be reopened for students for any reason.

Research

You will be required to conduct and present a research project on a Human Physiology subject (Groups and Topics to be pre-approved by Dr. Endres, Project must be cleared by Jan 25th). A group Paper will accompany the project. This is your final.

Human Physiology, BIO 2420, Spring 2021

Monday (via ZOOM), 10:30AM-11:30AM
Friday. Asynchronous Canvas activities, videos and assignments

4 credits

Lab: Online with LT, you will upload reports in canvas

Dr. Carla L Endres BLT108; 678-8209, carla.endres@usu.edu (mailto:carla.endres@usu.edu)

Web address: http://usueastern.edu/blanding/

Availability: No Office hours

You're invited to my online meeting during availability hours or by appointment. See Zoom link

Prerequisite/Restriction: Any one of the following: USU 1350 (http://catalog.usu.edu/content.php?filter%5B27%5D=BIOL&filter%5B29%5D=&filter%5Bcourse_type%5D=-1&filter%5Bkeyword%5D=&filter%5B32%1010 (http://catalog.usu.edu/content.php?
filter%5B27%5D=BIOL&filter%5B29%5D=&filter%5Bcourse_type%5D=-1&filter%5Bkeyword%5D=&filter%5B32%
1500 (http://catalog.usu.edu/content.php?
filter%5B27%5D=BIOL&filter%5B29%5D=&filter%5Bcourse_type%5D=-1&filter%5Bkeyword%5D=&filter%5B32%
1610 (http://catalog.usu.edu/content.php?
filter%5B27%5D=BIOL&filter%5B29%5D=&filter%5Bcourse_type%5D=-1&filter%5Bkeyword%5D=&filter%5B32%
2060 (http://catalog.usu.edu/content.php?
filter%5B27%5D=BIOL&filter%5B29%5D=&filter%5Bcourse_type%5D=-1&filter%5Bkeyword%5D=&filter%5B32%
2320 (http://catalog.usu.edu/content.php?
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1010 (http://catalog.usu.edu/content.php?
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1110 (http://catalog.usu.edu/content.php?
filter%5B27%5D=BIOL&filter%5B29%5D=&filter%5Bcourse_type%5D=-1&filter%5Bkeyword%5D=&filter%5B32%
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Text: OER: Open Stax Anatomy and Physiology. Info and link provided in Canvas (free) or you may opt to purchase for printing fee (through Amazon $52)

https://openstax.org/details/books/anatomy-and-physiology

Learning Objectives:

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After you post your original discussion, be sure to check back to the assignment before the due date. The second part requires you to respond to 1 or 2 (assignment dependent) posts by classmates. These should address ideas and concepts presented by your peers. You should give feedback to their ideas and elaborate on them. Responses are required to be 50-200 words (depending on the assignment). Not simply I agree. Give some substance to the content of their discussion.

Research This is your FINAL You will be required to conduct and present a research project on a Human Physiology subject (Topics to be Pre-approved by Dr. Endres Project must be cleared by Jan 25th). A Paper will accompany the project.

Project: Paper: The body of the text must be double spaced, Times font, size 12, 1 inch margins all around, and 7-10 pages long. Your paper should include at least five different references that are cited in the bibliography as well as in the body of the text. I will not accept any internet address or your text as a reference. Paper due April 9th 11:59PM, 50 points.

Projects will be submitted in a video format. Students should record in Zoom or Kaltura. To be submitted via link to BOX Minimum of 5 sources. See assignment for details. 200 points

Hourly Exams: There will be 3 exams that will be given during class time, administered on Canvas. Each exam will be worth 100 points. There will be no make-up exams. You will be allowed to drop the lowest exam score. Discussions will be introduced on Canvas- points awarded. Exams will use Proctorio, you must be at a computer with a webcam and audio, you will need valid ID to take the exam. There is a practice Proctorio exam on your computer. Please make sure that your systems work and you have all of the necessary elements downloaded on your device.

Midterm: There will be a mandatory midterm worth 150 points (100 points on material covered since the last exam; ~50 points comprehensive).

Missed Exams: All students are expected to take examinations on the day they are scheduled. Only illness (verified by a physician) and extreme legitimate situations will excuse a student. If an absence can be foreseen (e.g. games, field trips, competitions etc.), the excuse must be presented at least 2 weeks prior to the event and arrangements made with me for an alternate exam time. No excuses will be accepted after “the event”. The final exam cannot be made-up without prior arrangements with the instructor. Exams will be in a different format.
Grading: Scores will be posted in Canvas. Students will be graded on assignments, exams and Project. Students that are Failing will not be eligible for any Extra Credit, unless Professor deems them eligible.

**Letter grades:** Letter grades will follow the typical percentages as outlined:

- A’s – 90 to 100%
- B’s – 80 to 89%
- C’s – 70 to 79%
- D’s – 60 to 69%
- E – Less than 59%

**Course Withdrawal:** Withdrawal from the course after Jan 30th by will result in a “W” notation being on your transcript. Last day to drop March 23rd.

**ADA Syllabus Statement**

If a student has a disability that qualifies under the Americans with Disabilities Act (ADA) and requires accommodations, he/she should contact the Disability Resource Center for information on appropriate policies and procedures. Disabilities covered by ADA may include learning, psychiatric, physical disabilities, or chronic health disorders. Students can contact DRS if they are not certain whether a medical condition/disability qualifies. You may contact the DRS by phone (435) 797-0359 or email drctesting@usu.edu (mailto:drctesting@usu.edu) or visit the office located the Logan campus.

<table>
<thead>
<tr>
<th>Day</th>
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<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td>W</td>
<td>20 Jan</td>
<td></td>
<td>Lab 1 Muscles</td>
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<tr>
<td>F</td>
<td>22 Jan</td>
<td>1 and 2</td>
<td>Intro/Chemistry</td>
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<tr>
<td>2</td>
<td>M</td>
<td>25 Jan</td>
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<tr>
<td>Day</td>
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<td>W</td>
<td>27 Jan</td>
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<tr>
<td>F</td>
<td>29 Jan</td>
<td></td>
<td></td>
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<tr>
<td>3</td>
<td>M</td>
<td>1 Feb</td>
<td>1.5 Metabolism</td>
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<tr>
<td>W</td>
<td>3 Feb</td>
<td></td>
<td>Lab 3</td>
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<tr>
<td>F</td>
<td>5 Feb</td>
<td>EXAM</td>
<td>Exam 1(1-3)</td>
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<td><strong>UNIT 2</strong></td>
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<tr>
<td>4</td>
<td>M</td>
<td>8 Feb</td>
<td>Injury (W’s recorded))</td>
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<tr>
<td>W</td>
<td>10 Feb</td>
<td></td>
<td>Lab 4</td>
</tr>
<tr>
<td>F</td>
<td>12 Feb</td>
<td>10.2</td>
<td>Muscles</td>
</tr>
<tr>
<td>5</td>
<td>M</td>
<td>15 Feb</td>
<td>14 Somatic Nervous</td>
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<tr>
<td>W</td>
<td>17 Feb</td>
<td></td>
<td>Lab 5</td>
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<td>F</td>
<td>19 Feb</td>
<td>14</td>
<td>Nervous system</td>
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<td>6</td>
<td>M</td>
<td>22 Feb</td>
<td>14 Nervous</td>
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<td>W</td>
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<td>F</td>
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<td>16</td>
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<td>7</td>
<td>M</td>
<td>Mar 1</td>
<td>Discussions</td>
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<td>W</td>
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<td>F</td>
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<td>Midterm Exam (10-17)</td>
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**UNIT 3**
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<tr>
<td>8</td>
<td>M 8 Mar</td>
<td>17</td>
<td>Endocrine System</td>
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<tr>
<td></td>
<td>W 10 Mar</td>
<td></td>
<td>Lab 8</td>
</tr>
<tr>
<td></td>
<td>F 12 Mar</td>
<td>17</td>
<td>Endocrine</td>
</tr>
<tr>
<td>9</td>
<td>M 15 Mar</td>
<td>18</td>
<td>( Last Drop Day)</td>
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<tr>
<td></td>
<td>F 17 Mar</td>
<td></td>
<td>No lab this week</td>
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<tr>
<td>10</td>
<td>M 22 Mar</td>
<td>19/20</td>
<td>Heart Physiology</td>
</tr>
<tr>
<td></td>
<td>W 24 Mar</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>F 26 Mar</td>
<td></td>
<td></td>
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<tr>
<td>11</td>
<td>M 29 Mar</td>
<td></td>
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<tr>
<td></td>
<td>W 31 Mar</td>
<td></td>
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<tr>
<td></td>
<td>F 2 Apr</td>
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<td>Exam II</td>
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**UNIT 4**

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<tr>
<td>12</td>
<td>M 5 Apr</td>
<td>21</td>
<td>Lymph and Immune</td>
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<tr>
<td></td>
<td>W 7 Apr</td>
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<td>Lab 11 (Immunology)</td>
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<tr>
<td></td>
<td>F 9 Apr</td>
<td></td>
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<tr>
<td>13</td>
<td>M 12 Apr</td>
<td>22</td>
<td>Respiratory Physiology</td>
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<td></td>
<td>W 14 Apr</td>
<td></td>
<td>No Lab</td>
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<tr>
<td></td>
<td>F 16 Apr</td>
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<td>Exam III</td>
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</table>

**UNIT 5**
This course syllabus is tentative and subject to change.

University Policies & Procedures

COVID-19 Classroom Protocols

In order to continue to provide a high standard of instruction at USU, and to limit the spread of COVID-19 during the pandemic, students are asked to follow certain classroom protocols. These protocols are in place not only for your safety but also the safety of the rest of the campus community. You will be asked to clean your desk area at the start of each class, sit in designated seats, wear face coverings, and follow dismission instructions. There may be individual medical circumstances that prevent some students from using face coverings. These circumstances will be rare, but if they do exist, we ask that everyone be respectful. It is imperative that we each do our part so that on-campus instruction can continue.

Academic Freedom and Professional Responsibilities

Academic freedom is the right to teach, study, discuss, investigate, discover, create, and publish freely. Academic freedom protects the rights of faculty members in teaching and of students in learning. Freedom in research is fundamental to the advancement of truth. Faculty members are entitled to full freedom in teaching, research, and creative activities, subject to the limitations imposed by professional responsibility. Faculty Code Policy #403 (http://www.usu.edu/hr/files/uploads/Policies/403.pdf) further defines academic freedom and professional responsibilities.

Academic Integrity – "The Honor System"
Each student has the right and duty to pursue his or her academic experience free of dishonesty. To enhance the learning environment at Utah State University and to develop student academic integrity, each student agrees to the following Honor Pledge:

"I pledge, on my honor, to conduct myself with the foremost level of academic integrity."

A student who lives by the Honor Pledge is a student who does more than not cheat, falsify, or plagiarize. A student who lives by the Honor Pledge:

- Espouses academic integrity as an underlying and essential principle of the Utah State University community;
- Understands that each act of academic dishonesty devalues every degree that is awarded by this institution; and
- Is a welcomed and valued member of Utah State University.

### Academic Dishonesty

The instructor of this course will take appropriate actions in response to Academic Dishonesty, as defined the University's Student Code. Acts of academic dishonesty include but are not limited to:

- **Cheating**: using, attempting to use, or providing others with any unauthorized assistance in taking quizzes, tests, examinations, or in any other academic exercise or activity. Unauthorized assistance includes:
  - Working in a group when the instructor has designated that the quiz, test, examination, or any other academic exercise or activity be done "individually;"
  - Depending on the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments;
  - Substituting for another student, or permitting another student to substitute for oneself, in taking an examination or preparing academic work;
  - Acquiring tests or other academic material belonging to a faculty member, staff member, or another student without express permission;
  - Continuing to write after time has been called on a quiz, test, examination, or any other academic exercise or activity;
  - Submitting substantially the same work for credit in more than one class, except with prior approval of the instructor; or engaging in any form of research fraud.

- **Falsification**: altering or fabricating any information or citation in an academic exercise or activity.

- **Plagiarism**: representing, by paraphrase or direct quotation, the published or unpublished work of another person as one’s own in any academic exercise or activity without full and clear acknowledgment. It also includes using materials prepared by another person or by an agency engaged in the sale of term papers or other academic materials.

For additional information go to: ARTICLE VI. University Regulations Regarding Academic Integrity (https://studentconduct.usu.edu/studentcode/article6)

### Sexual Harassment/Title IX

Utah State University is committed to creating and maintaining an environment free from acts of sexual misconduct and discrimination and to fostering respect and dignity for all members of the USU community. Title IX and USU Policy 339 (http://www.usu.edu/policies/339) address sexual harassment in the workplace and academic setting.

The university responds promptly upon learning of any form of possible discrimination or sexual misconduct. Any individual may contact USU's Office of Equity (https://equity.usu.edu/) for available options and resources or clarification. The university has established a complaint procedure to handle all types of discrimination.
complaints, including sexual harassment (USU Policy 305 (http://www.usu.edu/policies/305/)), and has designated the Office of Equity Director/Title IX Coordinator as the official responsible for receiving and investigating complaints of sexual harassment.

### Withdrawal Policy and "I" Grade Policy

Students are required to complete all courses for which they are registered by the end of the semester. In some cases, a student may be unable to complete all of the coursework because of extenuating circumstances, but not due to poor performance or to retain financial aid. The term ‘extenuating’ circumstances includes: (1) incapacitating illness which prevents a student from attending classes for a minimum period of two weeks, (2) a death in the immediate family, (3) financial responsibilities requiring a student to alter a work schedule to secure employment, (4) change in work schedule as required by an employer, or (5) other emergencies deemed appropriate by the instructor.

### Students with Disabilities

USU welcomes students with disabilities. If you have, or suspect you may have, a physical, mental health, or learning disability that may require accommodations in this course, please contact the Disability Resource Center (DRC) (http://www.usu.edu/drc/) as early in the semester as possible (University Inn # 101, (435) 797-2444, drc@usu.edu (mailto:drc@usu.edu)). All disability related accommodations must be approved by the DRC. Once approved, the DRC will coordinate with faculty to provide accommodations.

Students who are at a higher risk for complications from COVID-19 or who contract COVID-19 may also be eligible for accommodations.

### Diversity Statement

Regardless of intent, careless or ill-informed remarks can be offensive and hurtful to others and detract from the learning climate. If you feel uncomfortable in a classroom due to offensive language or actions by an instructor or student(s) regarding ethnicity, gender, or sexual orientation, contact:

- Division of Student Affairs: https://studentaffairs.usu.edu (https://studentaffairs.usu.edu/), (435) 797-1712, studentservices@usu.edu (mailto:studentservices@usu.edu), TSC 220
- Student Legal Services: https://ususa.usu.edu/student-association/student-advocacy/legal-services (https://ususa.usu.edu/student-association/student-advocacy/legal-services), (435) 797-2912, TSC 326,
- Access and Diversity: http://accesscenter.usu.edu (http://accesscenter.usu.edu/), (435) 797-1728, access@usu.edu (mailto:access@usu.edu); TSC 315
- Multicultural Programs: http://accesscenter.usu.edu/multiculture (http://accesscenter.usu.edu/multiculture), (435) 797-1728, TSC 315
- LGBTQA Programs: http://accesscenter.usu.edu/lgbtqa (http://accesscenter.usu.edu/lgbtqa/), (435) 797-1728, TSC 3145
- Provost’s Office Diversity Resources: https://www.usu.edu/provost/diversity (https://www.usu.edu/provost/diversity/), (435) 797-8176

You can learn about your student rights by visiting:

The Code of Policies and Procedures for Students at Utah State University: https://studentconduct.usu.edu/studentcode (https://studentconduct.usu.edu/studentcode/)

### Grievance Process

Students who feel they have been unfairly treated may file a grievance through the channels and procedures described in the Student Code: Article VII (https://studentconduct.usu.edu/studentcode/article7).

### Full details for USU Academic Policies and Procedures can be found at:

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<table>
<thead>
<tr>
<th>Topic</th>
<th>Link</th>
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<tr>
<td>Student Conduct</td>
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<tr>
<td>Student Code</td>
<td><a href="https://studentconduct.usu.edu/studentcode/">https://studentconduct.usu.edu/studentcode/</a></td>
</tr>
<tr>
<td>Academic Integrity</td>
<td><a href="https://studentconduct.usu.edu/studentcode/article6">https://studentconduct.usu.edu/studentcode/article6</a></td>
</tr>
</tbody>
</table>

### Emergency Procedures

In the case of a drill or real emergency, classes will be notified to evacuate the building by the sound of the fire/emergency alarm system or by a building representative. In the event of a disaster that may interfere with either notification, evacuate as the situation dictates (i.e., in an earthquake when shaking ceases or immediately when a fire is discovered). Turn off computers and take any personal items with you. Elevators should not be used; instead, use the closest stairs.

### Mental Health

Mental health is critically important for the success of USU students. As a student, you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce your ability to participate in daily activities. Utah State University provides free services for students to assist them with addressing these and other concerns. You can learn more about the broad range of confidential mental health services available on campus at Counseling and Psychological Services (CAPS) [https://counseling.usu.edu](https://counseling.usu.edu).

Students are also encouraged to download the “SafeUT App” [https://healthcare.utah.edu/uni/programs/safe-ut-smartphone-app](https://healthcare.utah.edu/uni/programs/safe-ut-smartphone-app) to their smartphones. The SafeUT application is a 24/7 statewide crisis text and tip service that provides real-time crisis intervention to students through texting and a confidential tip program that can help anyone with emotional crises, bullying, relationship problems, mental health, or suicide related issues.