BIOL 5495 BIOPHYSICAL ECOLOGY

INSTRUCTOR

Instructor: David Bowling
Department: School of Biological Sciences
Email: david.bowling@utah.edu

Virtual Office Hours (Zoom):
M 3-4 pm, T 11-12 am, W 10-11 am,
Th 3-4 pm, or by appointment

Teaching Assistant: Henry Todd
Email: henry.todd@utah.edu

Virtual Office Hours (Zoom):
M 11-12 am, T 3-4 pm, W 2-3 pm, Th
9-10 am, or by appointment

COURSE DESCRIPTION

OVERVIEW

Course: BIOL 5495
Department: School of Biological Sciences
Pre-Requisites: Required: MATH 1180, 1220, 1260, or 1320
Recommended: PHYCS 2010, 2110, or 2210
Credit Hours: 4 (both sections 001 and 002 are required)
Semester  | Fall 2020
---|---
Format  | a mixture of online (mostly) and on campus computer labs (Fridays, 1-4 pm, ASB 220)

This lecture and laboratory course will examine the physical environment (light, wind, temperature, humidity) in which plants, animals, and soil organisms live, how the physical environment affects their physiological function, and how organisms in turn affect their physical environment. The course will focus on theory and methods relevant to examination of biological and ecological processes. It will be taught from an interdisciplinary perspective, including aspects of biology, physics, chemistry, and meteorology. Topics will include radiative, heat, and energy balance of plants, animals, soils, and ecosystems, convection, evaporation, transpiration, water transport through plants and soils, gas transport from leaves, boundary-layer phenomena, atmospheric structure and stability, atmospheric composition, atmospheric transport of biological trace gases, and climate change. The laboratory portion will focus on learning and using the R programming language to investigate topics covered in the lecture. It is recommended that PHYS 2010 or 2110 or 2210 be taken prior to taking this course. Note that this course meets QI and SUSL requirements.

GOALS & OBJECTIVES

The goal for this course is for the students to appreciate the wonders of the natural world from an interdisciplinary scientific perspective that includes many branches of science.

At the end of this course, students will be able to:

- use biological, physical, chemical, and mathematical approaches to understand and investigate aspects of biophysical ecology (nature!)
- use the R programming language as a quantitative analysis and graphing tool

REQUIRED MATERIALS

Materials required for this course are:

- Personal computer/laptop to run R and R Studio (free software, Mac, PC, Unix all ok)
- Webcam & microphone
Applications available via Canvas (Zoom)
Textbook: none required
Textbooks on electronic reserve at Marriott Library (for reference):
  - An Introduction to Environmental Biophysics, Campbell and Norman
  - Principles of Environmental Physics, Monteith and Unsworth

Ensure you have these ahead of time as they will be required to complete assignments and activities throughout the course. Please contact Dave Bowling immediately if computer availability or internet access are a challenge for you and we'll try to find a solution.

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**METHODS OF INSTRUCTION**

This course is a mix of online and in-person interaction. In order to protect everyone from COVID-19 during the in-person sessions, masks will be required (except for those with approved accommodations for disabilities), and social distancing will be enforced. Changes in the COVID-19 situation may cause the course to move online at other times.

- **Videos:** Primary instruction (total 2-2.5 hours per week) will be delivered via short (10-15 min) videos accessible via Canvas. These will not be scheduled, and may be viewed anytime after they are posted. The online designation of the class, and associated University policy, unfortunately prevents these from being interactive (you can't ask questions in real time). Each video will have a related Canvas discussion so anyone can post questions and discuss the content with the instructors and each other. Videos will be organized in Modules, roughly 1 module per week.

- **Computer lab:** Friday afternoons will involve computer programming in the R language. These will be scheduled and will require your participation during the scheduled time period. This will require your own computer and free software. No prior programming experience is needed. When possible, we will do this on campus (location above), but we will safely manage this via Zoom teleconference software if needed.

- **Virtual office hours:** We strongly encourage you to interact with us during office hours! We are quite happy to spend our time helping you learn. We will hold office hours (8 hours per week, schedule above) at different times and days to provide for interaction. Zoom is an excellent way for us to interact one on one, or as a group. We're happy to help you with Zoom if you need it.
COURSE POLICIES

STUDENT WORK

Students will participate in

- Homework assignments (scheduled): There will be 13 weekly homework assignments, due via Canvas on Fridays at 12 noon, including the first week of class. These will be challenging and you will likely need help from the instructors; these assignments will make up the majority of your grade. All will require numerical calculations, and all except the first will require programming in R (which we will teach you). You are expected to complete these assignments individually, but you can certainly ask the instructors or fellow students for help along the way.

- Quizzes (not scheduled): There will be a quiz associated with each instruction module. These are designed for you to assess how well you have learned the content in that module. You'll get feedback on whether your answers are correct, but you won't get the answers. You can repeat the quiz if needed until you get all the answers correct, and at that point you'll get full credit for the quiz. Since this is a tool to assess your own learning, please complete the quizzes individually.

- Computer labs (scheduled): The Friday periods (12 of them) will be focused on learning R as a scientific tool. This will be interactive so bring your computer to lab every time. There will be a graded student exercise at the end of each lab. When instruction is all online (whether scheduled or due to a change in COVID situation), we will do these labs via Zoom.

- Project: An individual student research project will wrap up the course, due during the final exam period. This will involve a biophysical ecology topic, data wrangling, analysis, and plotting in R, and a written project report. We will provide plenty of guidance and help during the latter part of the course. Clear details will be provided later in the semester. You are expected to complete this project individually.

- There will be no exams!

Here is the planned schedule of topics for the course. The plan is to have one module per week, but we may need to adjust the timing.

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<thead>
<tr>
<th>Week</th>
<th>Module</th>
<th>Topic</th>
<th>Lab Location</th>
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</thead>
<tbody>
<tr>
<td>8/24</td>
<td>1</td>
<td>Intro, Energy Balance, Radiant Energy</td>
<td>on campus?</td>
</tr>
<tr>
<td>8/31</td>
<td>2</td>
<td>Radiant Energy</td>
<td>on campus?</td>
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</tbody>
</table>
9/7  3 Ways to Transfer Energy, Temperature, Heat Transport on campus?
9/14 4 Diffusion, Convection, Boundary Layers on campus?
9/21 5 Gas Laws, Evaporation on campus?
9/28 6 Conduction and Storage online
10/5 7 Water Transport Through Plants online
10/12 8 Light Absorption, Pigments on campus?
10/19 9 Energy and Carbon Balance - Aquatic and Terrestrial Plants on campus?
10/26 10 Energy and Carbon Balance - Animals on campus?
11/2 11 Energy and Carbon Balance - Forests to Globe on campus?
11/9 12 Energy and Carbon Balance - Human Systems on campus?
11/16 13 Climate Change online help
11/23 14 to be determined no lab
11/30 14 no instruction, help with projects online help
12/7 no final exam, projects due during final exam period

SUBMITTING ASSIGNMENTS

All assignments must be submitted via Canvas. Email will not be accepted without prior consent from Dave Bowling.

LATE ASSIGNMENTS

This is a challenging class. It is extremely important to keep up! Late assignments will be penalized by subtracting 10% of the assignment value per day, including the day of the deadline (if you miss the Friday noon deadline for homework and turn it in later Friday, you will still lose 10%). If you have a serious situation that affects your ability to keep up (such as illness of your own or a loved one), please contact Dave Bowling immediately and we will try to find a solution. If you wait until late in the semester to address missed work, you will be disappointed when we turn you down.

GRADING
Grades will be weighted as follows:

- Homework: 60%
- Project: 20%
- Quizzes: 10% (these are pass/fail)
- Computer lab exercises: 10% (these are pass/fail)

*Canvas may not accurately reflect your grade during the semester.* If you have questions about your grade just ask Dave Bowling.

**WE WILL FOLLOW THE UNIVERSITY OF UTAH GRADING SCALE. IF THE MEAN FOR THE CLASS IS BELOW 75%, EVERYONE WILL BE SHIFTED UPWARD TO ADJUST THE MEAN TO 75%**.

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<td>A-</td>
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**EQUITY AND INCLUSION**

As biologists, we appreciate biodiversity in all forms, including people. Everyone is welcome in this class, and all respectful dialogue is welcome, including differences of opinion. Be kind and open your mind to everyone and everything. If you are concerned about any issue along these lines, please contact Dave Bowling and we will confidentially address it.
ACCOMMODATIONS

Accommodations for missed work or absence will be considered on an individual basis and may require documentation.

EXTREME PERSONAL CIRCUMSTANCES

Please contact your instructor as soon as possible if an extreme personal circumstance (hospitalization, death of a close relative, natural disaster, etc.) is interfering with your ability to complete your work.

RELIGIOUS PRACTICE

To request an accommodation for religious practices, contact your instructor at the beginning of the semester.

ACTIVE DUTY MILITARY

If you are student on active duty with the military and experience issues that prevent you from participating in the course because of deployment or service responsibilities, contact your instructor as soon as possible to discuss appropriate accommodations.

DISABILITY ACCESS

All written information in this course can be made available in an alternative format with prior notification to the Center for Disability Services (CDS). CDS will work with you and the instructor to make arrangements for accommodations. Prior notice is appreciated. To read the full accommodations policy for the University of Utah, please see Section Q of the Instruction & Evaluation regulations (http://regulations.utah.edu/academics/6-100.php).

If you will need accommodations in this class, contact:

Center for Disability Services

📞 801-581-5020

📧 disability.utah.edu (https://disability.utah.edu/)

📍 162 Union Building
CHANGES TO THE SYLLABUS

This syllabus is not a contract. It is meant to serve as an outline and guide for your course. Please note that your instructor may modify it to accommodate the needs of your class.

You will be notified of any changes to the Syllabus.

UONLINE EXPECTATIONS

UONLINE STUDENT EXPECTATIONS

Though the online format allows students greater flexibility to complete their work, this course does have a structure and timeline! As such, the following is expected of all students in this class:

- Students must be self-motivated, organized, and willing to stay on top of their schedule. Students should take control of their learning while in this course.
- Students are expected to follow the Core Rules of Netiquette (http://www.albion.com/netiquette/corerules.html) at all times while participating in the class and communicating with others.
- Students will log in to the course a minimum of 3 times per week.
- Students are not expected to interact with their classmates in person. Students may be expected to work with classmates via online communication options like Canvas Discussions, video conferencing, or another communication technologies of choice (Groupme, FaceTime, Google Hangouts, etc).
- Students will regularly check for course updates and will update their Canvas notification settings to ensure they receive timely notifications from the course.
- Students will contact their instructor or teaching assistant in a timely manner if they have any questions, are struggling with course materials, or need further assistance from their instructor.
  - If you do not hear back within 3 days after sending a message, please contact your instructor/TA again.
- Students will follow all official University of Utah policies regarding interpersonal

- If you have any questions about this, please contact the Dean of Students (https://deanofstudents.utah.edu).

UONLINE INSTRUCTOR EXPECTATIONS

Your course instructor is an expert in the topics you will learn about this semester. Your instructor is your mentor and facilitator of the classroom experience, aided by teaching assistants. Instructors are committed to:

- The instructor will design the course to include lectures, learning materials, and assignments that are accessible and provide students with opportunities to learn and practice course content.
- The instructor and teaching assistants will ensure that the course remains a safe space where students can engage with difficult content thoughtfully and respectfully.
- The instructor and teaching assistants will interact with the class regularly via announcements, virtual office hours (one-on-one video conferencing), emails/the Canvas Inbox, feedback on assignments, and comments on Discussions, among other methods.
- The instructor and teaching assistants will respond to students in a timely manner: within 48 hours, not including weekends and holidays.
- The instructor and teaching assistants will be available for individual consultation via virtual office hours (one-on-one video conferencing), email, or phone and will not require students to meet in person.
- The instructor and teaching assistants will provide relevant feedback in a timely manner.
- The instructor and teaching assistants will follow all official University of Utah policies regarding interpersonal conduct, accommodations, and other important duties.

UNIVERSITY POLICIES

COVID-19 CAMPUS GUIDELINES

Students are required to self-report if they test positive for COVID-19. To report, please
To reduce the spread of COVID-19 on campus, **face coverings are required in all in-person classes for both students and faculty.**

Based on CDC guidelines, the University requires everyone to wear face coverings in shared public spaces on campus. **If you repeatedly fail to wear a face covering in class, you may be referred to the Dean of Students for a possible violation of the Student Code.**

**Some courses may require attendance due to hands-on coursework.** Please read the syllabus and attendance requirements for the course thoroughly.

**Some students may qualify for accommodations & exemptions from these guidelines through the Americans with Disabilities Act (ADA).** Accommodations should be obtained prior to the first day of class.

If you believe you meet these criteria, contact:

**Center for Disability & Access**

- ☏ 801-581-5020
- 🌐 disability.utah.edu (https://disability.utah.edu/)
- 📍 162 Union Building
  - 200 S. Central Campus Dr.
  - Salt Lake City, UT 84112

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**DROP/WITHDRAWAL POLICIES**

Students may drop a course within the first two weeks of a given semester without any penalties.

Students may officially withdraw (W) from a class or all classes after the drop deadline through the midpoint of a course. A “W” grade is recorded on the transcript and appropriate tuition/fees are assessed. The grade “W” is not used in calculating the student’s GPA.

For deadlines to withdraw from full-term, first, and second session classes, see the U’s [Academic Calendar](https://registrar.utah.edu/academic-calendars/index.php).
PLAGIARISM & CHEATING

It is assumed that all work submitted to your instructor is your own work. When you have used ideas of others, you must properly indicate that you have done so.

Plagiarism and cheating are serious offenses and may be punished by failure on an individual assignment, and/or failure in the course. Academic misconduct, according to the University of Utah Student Code,

“...Includes, but is not limited to, cheating, misrepresenting one’s work, inappropriately collaborating, plagiarism, and fabrication or falsification of information...It also includes facilitating academic misconduct by intentionally helping or attempting to help another to commit an act of academic misconduct.”

For details on plagiarism and other important course conduct issues, see the U's Code of Student Rights and Responsibilities (http://regulations.utah.edu/academics/6-400.php).

COURSE MATERIALS COPYRIGHT

The Content is made available only for your personal, noncommercial educational and scholarly use. You may not use the Content for any other purpose, or distribute, post or make the Content available to others, unless you obtain any required permission from the copyright holder. Some Content may be provided via streaming or other means that restrict copying; you may not circumvent those restrictions. You may not alter or remove any copyright or other proprietary notices included in the Content.

Please see the Code of Student Rights and Responsibilities (https://regulations.utah.edu/academics/6-400.php), Section III.A.5 regarding use and distribution of class Content and materials.

https://regulations.utah.edu/academics/6-400.php

Section III.A.5. prohibits the following:
Sale or distribution of information representing the work product of a faculty member to a commercial entity for financial gain without the express written permission of the faculty member responsible for the course. (“Work product” means original works of authorship that have been fixed in a tangible medium and any works based upon and derived from the original work of authorship.)

SAFETY AT THE U
The University of Utah values the safety of all campus community members. You will receive important emergency alerts and safety messages regarding campus safety via text message.

For more information regarding safety and to view available training resources, including helpful videos, visit safeu.utah.edu (http://safeu.utah.edu).

To report suspicious activity or to request a courtesy escort, contact:

**Campus Police & Department of Public Safety**

📞 801-585-COPS (801-585-2677)

🌐 dps.utah.edu (https://dps.utah.edu/)

📍 1735 E. S. Campus Dr.
Salt Lake City, UT 84112

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**WELLNESS AT THE U**

Your personal health and wellness are essential to your success as a student. Personal concerns like stress, anxiety, relationship difficulties, depression, or cross-cultural differences can interfere with a student’s ability to succeed and thrive in this course and at the University of Utah.

Please feel welcome to reach out to your instructor or TA's to handle issues regarding your coursework.

For helpful resources to manage your personal wellness and counseling options, contact:

**Center for Student Wellness**

📞 801-581-7776

🌐 wellness.utah.edu (http://wellness.utah.edu/)

📍 2100 Eccles Student Life Center
    1836 Student Life Way
Salt Lake City, UT 84112

**Women's Resource Center**

📞 801-581-8030

🌐 womenscenter.utah.edu (https://womenscenter.utah.edu/)

📍 411 Union Building
    200 S. Central Campus Dr.
Salt Lake City, UT 84112

(https://utah.instructure.com/courses/630990/assignments/syllabus)
ADDRESSING SEXUAL MISCONDUCT

Title IX makes it clear that violence and harassment based on sex and gender (which includes sexual orientation and gender identity/expression) is a civil rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, color, religion, age, status as a person with a disability, veteran's status, or genetic information.

If you or someone you know has been harassed or assaulted, you are encouraged to report it to university officials:

**Title IX Coordinator & Office of Equal Opportunity and Affirmative Action**

🔗 801-581-8365
🌐 [oeo.utah.edu](https://oeo.utah.edu/)
📍 135 Park Building
   201 Presidents' Cir.
   Salt Lake City, UT 84112

**Office of the Dean of Students**

🔗 801-581-7066
🌐 [deanofstudents.utah.edu](https://deanofstudents.utah.edu/)
📍 270 Union Building
   200 S. Central Campus Dr.
   Salt Lake City, UT 84112

To file a police report, contact:

**Campus Police & Department of Public Safety**

🔗 801-585-COPS (801-585-2677)
🌐 [dps.utah.edu](https://dps.utah.edu/)
📍 1735 E. S. Campus Dr.
   Salt Lake City, UT 84112

If you do not feel comfortable reporting to authorities, the U's Victim-Survivor Advocates provide **free, confidential** and **trauma-informed** support services to **students, faculty, and staff** who have experienced interpersonal violence.

To **privately** explore options and resources available to you with an advocate, contact:

**Center for Student Wellness**

🔗 801-581-7776
🌐 [wellness.utah.edu](http://wellness.utah.edu/)
AMERICANS WITH DISABILITIES ACT (ADA)

The University of Utah seeks to provide equal access to its programs, services, and activities for people with disabilities.

All written information in this course can be made available in an alternative format with prior notification to the Center for Disability & Access (CDA). CDA will work with you and the instructor to make arrangements for accommodations. Prior notice is appreciated. To read the full accommodations policy for the University of Utah, please see Section Q of the Instruction & Evaluation regulations (http://regulations.utah.edu/academics/6-100.php).

If you will need accommodations in this class, or for more information about what support they provide, contact:

Center for Disability & Access
☎ 801-581-5020
✉ disability.utah.edu (https://disability.utah.edu)
📍 162 Union Building
200 S. Central Campus Dr.
Salt Lake City, UT 84112

DIVERSE STUDENT SUPPORT

Your success at the University of Utah is important to all of us here! If you feel like you need extra support in academics, overcoming personal difficulties, or finding community, the U is here for you.

STUDENT SUPPORT SERVICES (TRIO)

TRIO federal programs are targeted to serve and assist low-income individuals, first-generation college students, and individuals with disabilities.

Student Support Services (SSS) is a TRIO program for current or incoming undergraduate university students who are seeking their first bachelor’s degree and need academic assistance and other services to be successful at the University of Utah.
For more information about what support they provide, a list of ongoing events, and links to other resources, view their website or contact:

**Student Support Services (TRIO)**

- 801-581-7188
- [trio.utah.edu](https://trio.utah.edu/)
- Room 2075
  - 1901 E. S. Campus Dr.
  - Salt Lake City, UT 84112

**AMERICAN INDIAN STUDENTS**

The AIRC works to increase American Indian student visibility and success on campus by advocating for and providing student centered programs and tools to enhance academic success, cultural events to promote personal well-being, and a supportive “home-away-from-home” space for students to grow and develop leadership skills.

For more information about what support they provide, a list of ongoing events, and links to other resources, view their website or contact:

**American Indian Resource Center**

- 801-581-7019
- [diversity.utah.edu/centers/airc](https://diversity.utah.edu/centers/airc/)
- Fort Douglas Building 622
  - 1925 De Trobriand St.
  - Salt Lake City, UT 84113

**BLACK STUDENTS**

Using a pan-African lens, the Black Cultural Center seeks to counteract persistent campus-wide and global anti-blackness. The Black Cultural Center works to holistically enrich, educate, and advocate for students, faculty, and staff through Black centered programming, culturally affirming educational initiatives, and retention strategies.

For more information about what support they provide, a list of ongoing events, and links to other resources, view their website or contact:
Black Cultural Center

📞 801-213-1441
🌐 diversity.utah.edu/centers/bcc (https://diversity.utah.edu/centers/bcc/)
📍 Fort Douglas Building 603
  95 Fort Douglas Blvd.
  Salt Lake City, UT 84113

STUDENTS WITH CHILDREN

Our mission is to support and coordinate information, program development and services that enhance family resources as well as the availability, affordability and quality of child care for University students, faculty and staff.

For more information about what support they provide, a list of ongoing events, and links to other resources, view their website or contact:

Center for Childcare & Family Resources

📞 801-585-5897
🌐 childcare.utah.edu (https://childcare.utah.edu/)
📍 408 Union Building
  200 S. Central Campus Dr.
  Salt Lake City, UT 84112

STUDENTS WITH DISABILITIES

The Center for Disability Services is dedicated to serving students with disabilities by providing the opportunity for success and equal access at the University of Utah. They also strive to create an inclusive, safe, and respectful environment.

For more information about what support they provide and links to other resources, view their website or contact:

Center for Disability Services

📞 801-581-5020
🌐 disability.utah.edu (https://disability.utah.edu/)
📍 162 Union Building
  200 S. Central Campus Dr.
STUDENTS OF ETHNIC DESCENT

The Center for Ethnic Student Affairs offers several programs dedicated to the success of students with varied cultural and ethnic backgrounds. Their mission is to create an inclusive, safe campus community that values the experiences of all students.

For more information about what support they provide, a list of ongoing events, and links to other resources, view their website or contact:

Center for Ethnic Student Affairs
801-581-8151
diversity.utah.edu/centers/cesa/ (https://diversity.utah.edu/centers/cesa/)
235 Union Building
200 S. Central Campus Dr.
Salt Lake City, UT 84112

ENGLISH AS A SECOND/ADDITIONAL LANGUAGE (ESL) STUDENTS

If you are an English language learner, there are several resources on campus available to help you develop your English writing and language skills. Feel free to contact:

Writing Center
801-587-9122
writingcenter.utah.edu (http://writingcenter.utah.edu/)
2701 Marriott Library
295 S 1500 E
Salt Lake City, UT 84112

English for Academic Success (EAS) Program
801-581-8047
linguistics.utah.edu/eas-program (https://linguistics.utah.edu/eas-program/)
2300 LNCO
255 S. Central Campus Dr.
Salt Lake City, UT 84112
UNDOCUMENTED STUDENTS

Immigration is a complex phenomenon with broad impact—those who are directly affected by it, as well as those who are indirectly affected by their relationships with family members, friends, and loved ones. If your immigration status presents obstacles that prevent you from engaging in specific activities or fulfilling specific course criteria, confidential arrangements may be requested from the Dream Center.

Arrangements with the Dream Center will not jeopardize your student status, your financial aid, or any other part of your residence. The Dream Center offers a wide range of resources to support undocumented students (with and without DACA) as well as students from mixed-status families.

For more information about what support they provide and links to other resources, view their website or contact:

Dream Center
📞 801-213-3697
🌐 [dream.utah.edu](http://dream.utah.edu/)
📍 1120 Annex (Wing B)
  1901 E. S. Campus Dr.
  Salt Lake City, UT 84112

LGBTQ+ STUDENTS

The LGBTQ+ Resource Center acts in accountability with the campus community by identifying the needs of people with a queer range of [a]gender and [a]sexual experiences and responding with university-wide services.

For more information about what support they provide, a list of ongoing events, and links to other resources, view their website or contact:
VETERANS & MILITARY STUDENTS

The mission of the Veterans Support Center is to improve and enhance the individual and academic success of veterans, service members, and their family members who attend the university; to help them receive the benefits they earned; and to serve as a liaison between the student veteran community and the university.

For more information about what support they provide, a list of ongoing events, and links to other resources, view their website or contact:

Veterans Support Center

801-587-7722

veteranscenter.utah.edu

418 Union Building
200 S. Central Campus Dr.
Salt Lake City, UT 84112

WOMEN

The Women’s Resource Center (WRC) at the University of Utah serves as the central resource for educational and support services for women. Honoring the complexities of women’s identities, the WRC facilitates choices and changes through programs, counseling, and training grounded in a commitment to advance social justice and equality.

For more information about what support they provide, a list of ongoing events, and links to other resources, view their website or contact:

Women’s Resource Center

801-581-8030

womenscenter.utah.edu
INCLUSIVITY AT THE U

The Office for Inclusive Excellence is here to engage, support, and advance an environment fostering the values of respect, diversity, equity, inclusivity, and academic excellence for students in our increasingly global campus community. They also handle reports of bias in the classroom as outlined below:

Bias or hate incidents consist of speech, conduct, or some other form of expression or action that is motivated wholly or in part by prejudice or bias whose impact discriminates, demeans, embarrasses, assigns stereotypes, harasses, or excludes individuals because of their race, color, ethnicity, national origin, language, sex, size, gender identity or expression, sexual orientation, disability, age, or religion.

For more information about what support they provide and links to other resources, or to report a bias incident, view their website or contact:

**Office for Inclusive Excellence**

📞 801-581-4600

🌐 [inclusive-excellence.utah.edu](http://inclusive-excellence.utah.edu/)

[http://continue.utah.edu/eli](http://continue.utah.edu/eli)

📍 170 Annex (Wing D)

1901 E. S. Campus Dr.
Salt Lake City, UT 84112

OTHER STUDENT GROUPS AT THE U

To learn more about some of the other resource groups available at the U, check out:

🌐 [getinvolved.utah.edu](https://getinvolved.utah.edu/)

🌐 [studentsuccess.utah.edu/resources/student-support](https://studentsuccess.utah.edu/resources/student-support/)
## Course Summary:

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