SCI 295V Introduction to STEM Research

Spring 25
1-3 credits 60167

Windward Community College Mission Statement

'O keia ka wā kūpono e ho'onui ai ka 'ike me ka ho'omaopopo i kō Hawai'i mau ho'oilina waiwai. Aia nō ho'i ma ke Kulanui Kaiāulu o ke Ko'olau nā papahana hou o nā 'ike 'ake akamai a me nā hana no'eau. Me ke kuleana ko'iko'i e ho'ohiki ke Kulanui e kāko'o a e ho'okumu i ala e hiki kē kōkua i ka ho'onui 'ike a nā kānaka maoli. Na mākou nō e ho'olako, kāko'o a paipai i nā Ko'olau a kō O'ahu a'e me nā hana no'eau ākea, ka ho'ona'auao 'oihana a me ka ho'onui 'ike ma ke kaiāulu— hō'a'ano a e ho'oulu i nā haumāna i ka po'okela.

Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawai'i and its unique heritage. With a special commitment to support the access and educational needs of Native Hawaiians, we provide the Koʻolau region of Oʻahu and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.

Instructor Information

How to Contact Your Instructor

Mackenzie Manning

Office: ʻImiloa 121

Office Hours: By appt.

Email: mmanning@hawaii.edu

ZOOM Office Link

Alternate Contact Information

If you are unable to contact the instructor, have questions that your instructor cannot answer, or for any other issues, please contact the Academic Affairs Office:

- Location: Alakaʻi 121
- Phone: (808) 235-7422

Course Information

Catalog Description

SCI 295V offers a research experience in science, technology, engineering, and/or mathematics, emphasizing the application of the scientific method to a specific project.

Repeatable for up to 6 credits. (3 hours cooperative education/work experience per week per credit)

Student Learning Outcomes

As a result of taking this course, students can expect to attain the following outcomes:

1. Use research and technology skills to access information from multiple sources.

2. Design and implement a plan to solve a specific STEM-based research project.

3. Collect, analyze and interpret data generated by the selected research project.

4. Communicate conclusions in written and/or oral form.

Required Materials

Research articles, equipment and all materials will be available as needed

Course Format

The format of this independent research course will vary based upon the student's project. Weekly 1-hour meetings are required between the student and instructor to facilitate the research and maintain progress throughout the semester. Field and lab work may be required and will be discussed with the student.

Course Technology

Lamakū Learning Management System (https://lamaku.hawaii.edu/d2l/home)
- Keeping Accessibility and UDL in Mind - Google Docs
- Lamakū automatically logs you out *if it does not detect activity for three hours*. A warning message will appear, notifying you of the lack of activity. Activity is defined as clicking a button in Lamakū, such as "Save Draft" or "Next" (in a test), clicking on a course tab, or taking an action that sends information to the server.

Regular Substantive Interaction

Online courses at Windward Community College follow these guidelines for ensuring quality instruction: RSI Definition-WCC.

Other Technology
Review the privacy/security policies before using the technologies we will be using in this class. Contact me if you would like to discuss the use of alternate options or technologies.
- [Delete this text before publishing the syllabus: Listed below are commonly used tools prepopulated with accessibility statements and privacy policies. Please feel free to add, edit, or delete this list based on tools used in your own course. If your tool is not included in this list, check the UH ITS Reviewed Instructional Third Party Online Tools

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list before including it in your syllabus. Delete the instructions after you have completed your list.]

- **Google Sheets** is used to create assignment and reference worksheets (accessibility statement, privacy policy)
- **Google Docs** is used to create the Course Design Document and rubrics (accessibility statement, privacy policy)
- **H5P** is used for creating review activities (accessibility, privacy policy)
- **Kahoot!** is used for review activities (accessibility statement, privacy policy)
- **Loom** is used for screen recording (accessibility statement not provided, privacy policy)
- **Nearpod** is used for interactive presentations (accessibility statement, privacy policy)
- **Padlet** is used for some of the discussion activities (Padlet Accessibility Statement, Padlet privacy policy)
- **PearDeck** is used for interactive presentations (accessibility statement not provided, privacy policy)
- **Quizlet** is used for interaction (accessibility statement not provided, privacy policy)
- **YouTube** is used for delivering some of the course content (accessibility statement, privacy policy)
- **Zoom** is used for the Synchronous Sessions and virtual office (accessibility statement, privacy policy)

Participation Verification

Campuses are required by federal regulations to verify the participation of students in their classes. In accordance with Executive Policy 7.209, all students in the University of Hawai'i system are required to establish "participation" to ensure that they are not dropped from their class(es). Effective fall 2021, students who fail to participate by the late registration period for a class will be administratively dropped from that class. Students may also be dropped from dependent prerequisite and/or corequisite classes if both courses do not establish participation.

Grading Policy

[Include grading, late work policy, withdrawals, incompletes, and the grading scale. Delete the instructions afterward.]

Assessment Tasks and Grading

The assignment of points will be according to the following protocol (subject to changes):

Proposal	10%
Literature reviews (x3)	30%
Draft report	30%
Poster	30%

Letter grades will be assigned as follows:

A   90% or above in total points

B   80-89.9% of total points

C   65-79.9% of total points

D   55-64.9% of total points

F   Below 55% of total points or informal or incomplete official withdrawal from course.

I   Given at Instructors discretion. See catalog for detailed description.

W   Official withdrawal from the course by **MARCH 28, 2025**.

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Tentative schedule

Week	Topic
1-5	Finish proposal, first two literature reviews, develop protocol, first lab/field day
6-10	Continue refining protocol, more lab/field days, last literature review due
11-14	Data analysis, format poster, construct report draft
15	Poster preparation, report draft due

Academic Integrity

Work submitted by a student must be the student's own work. The work of others should be explicitly marked, such as through the use of quotes or summarizing with reference to the original author.

In this class, students who commit academic dishonesty, cheating, or plagiarism will have the following consequence(s):

Students will receive a failing grade for plagiarized assignments.

All cases of academic dishonesty are referred to the Vice Chancellor for Student Affairs.

[Windward CC Student Conduct Information](#)

[UH System Student Conduct Policy EO 7.208](#)

Include an AI Statement (is it ok in your class? if so, when/how?) Here are some [UH AI Recommendations](#) and [AI Icons & Sample Statements](#). Instructors should refrain from sharing or inputting student work into online AI tools, including AI detection tools, without obtaining student consent. Uploading student work has potential FERPA implications as well as potential copyright concerns. Additionally, the uploaded content could be used as data for AI training without the student's consent.

Student Responsibilities

- Expectations
- Additional policies (e.g., cell phones in the classroom, late work, attendance, missed work, extra credit, participation, netiquette)
- Any information you feel the student needs to know
- Students may check the [Student Notifications](#) page on the website for canceled classes

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How to Seek Academic or Technical Support

Academic Support

- [Windward Community College Library](#)
- [Library eResources](#)
- [Ka Piko Writing Lab](#)
- [Ka Piko Speech Lab](#)
- [Ka Piko Math Lab](#)
- [Evening and Online Learning at Windward Community College](#)
- [STAR Balance](#)

Technical Support

- [UH ITS Help Desk](#) – email help@hawaii.edu or call 956-8883 (or 1-800-558-2669) for Lamakū and most technology support. Available 24 hours a day, 7 days a week, including holidays.
- Student Tech Support - email winhelp@hawaii.edu, call 808-235-7437, or stop by in person at Hale Laʻakea 228. Available Monday–Friday from 8:00 am–4:00 pm.
- Lamakū – Click on the [Lamakū Help](#) link in the menu bar at the top of the Lamakū homepage to fill out and submit a question and get your answer via email.
- [Information Security for Students](#)

College Policies & Support Services

Disabilities Accommodations Statement

The Windward Community College's Disability Student Services Office (WCC-DSSO) is committed to providing equal access to qualified students with disabilities.

If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to participate fully in this class, you are encouraged to contact the Disability Specialist Counselor, Roy Inouye, to discuss reasonable accommodations that will help you succeed in this class. The Disabilities Counselor can be reached at 808-235-7448, wccdsso@hawaii.edu, or stop by the office (Hale Kakoʻo 106) for more information.

TRIO PROGRAM

The Federal TRiO Programs are educational opportunity outreach programs designed to motivate and support students from disadvantaged backgrounds. TRiO includes six outreach and support programs targeted to serve and assist low-income, first-generation college students and students with disabilities in progressing through the academic pipeline from middle school to post-baccalaureate programs. Here is their contact info:https://windward.hawaii.edu/trio/

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Basic Needs
Basic needs include food and housing, childcare, mental health, financial resources, and transportation. Student basic needs security is critical for ensuring strong academic performance, persistence and graduation, and overall student well-being. If you or someone you know is experiencing basic needs insecurity, please see the UH System Basic Needs website.

Mental Health Counseling
Mental Health and Wellness at Windward Community College counseling services and activities on campus to support students' life goals as well as their academic goals. Information about services can be found at the WCC Mental Health & Wellness website.

LGBTQ+

The University of Hawaiʻi system and Windward Community College are committed to building an inclusive community that supports and advocates for all Students, Staff, and Faculty. We welcome all members of our campus community to our campuses: transgender, māhū, and people of all gender identities. All members of our campus community deserve a work and educational environment free from harassment or bullying based on their sexual orientation, gender identity, or expression. University of Hawaiʻi Commission on LGBTQ+ Equality at their website: http://www.hawaii.edu/offices/president/lgbtq/ Windward Community College Commissioner: Scott Sutherland, scottjks@hawaii.edu

UH Alerts
The UH Alert emergency notification system alerts the university community in the event of a natural, health or civil emergency. The information you provide will only be used in the event of an emergency that impacts the health and safety of the UH community or the closure of whole campuses. It will not be shared with others or used for routine UH communications or announcements. To sign up, visit UH Alerts website for more information.

Financial Aid
If you are receiving financial aid and are contemplating not completing the course, BEFORE you withdraw, it is highly recommended that you contact the Financial Aid Office at 808-934-2712 or email them at wccfao@hawaii.edu to discuss the impact this decision may have on your financial aid eligibility.

Student Conduct Code

Windward Community College follows the University of Hawaiʻi Code of Student Conduct which defines expected conduct for students and specifies those acts subject to University sanctions. Students should familiarize themselves with the Code of Student Conduct since, upon enrollment at Windward Community College, the student has placed herself/himself under the policies and regulations of the University and its duly constituted bodies. The disciplinary authority is exercised through the Office of the Vice Chancellor for Student Affairs. Copies of the Student Conduct Code are available at the Office of the Vice Chancellor for Student Affairs or online.

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Title IX - Sex Discrimination And Gender-Based Violence Resources

Windward Community College is committed to providing a learning, working, and living environment that promotes personal integrity, civility, and mutual respect and is free of all forms of sex discrimination and gender-based violence, including sexual assault, sexual harassment, gender-based harassment, domestic violence, dating violence, and stalking.

If you or someone you know is experiencing any of these, WCC has staff and resources to support and assist you. To report an incident of sex discrimination or gender-based violence, as well as receive information and support, please contact one of the following:

> Leslie Cabingabang, UH System Confidential Advocate
> Phone/Text: (808) 348-0432 or (808) 341-4952
> Email: advocate@hawaii.edu
> Office: Hale Kāko'o 107 (Wednesdays)
>
> Mykie E. Menor Ozoa-Aglugub, J.D., Title IX Coordinator
> Phone: (808) 235-7468
> Email: mozoa@hawaii.edu
> Office: Hale Kāko'o 109
>
> Desrae Kahale, Mental Health Counselor & Confidential Resource
> Phone: (808) 235-7393
> Email: dkahale3@hawaii.edu
> Office: Hale Kāko'o 101
>
> Karen Cho, Deputy Title IX Coordinator
> Phone: (808) 235-7404
> Email: kcho@hawaii.edu
> Office: Hale 'Alaka'i 120

As a member of the University faculty, I am required to immediately report any incident of sex discrimination or gender-based violence to the campus Title IX Coordinator. Although the Title IX Coordinator and I cannot guarantee confidentiality, you will still have options about how your case will be handled. My goal is to make sure you are aware of the range of options available to you and have access to the resources and support you need.

For more information regarding sex discrimination and gender-based violence, the University's Title IX resources, and the University's Policy, Interim EP 1.204, go to manoa.hawaii.edu/titleix/

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