



Shasta College

2023/2024

FOREST HEALTH END OF YEAR REPORT



Forestry/NR



HELO



HEO



TRDR



Shasta College

www.shastacollege.edu

Shasta College is an equal opportunity educator and employer.

Business, Ag and
Career Technical Education

(530) 242-7560

FIVE YEAR REFLECTION

Zachary Zweigle, Dean of Business, Agriculture, & Career Technical Education (BACTE)



Reflecting on my tenure over the past five years serving the Division of Career Technical Education, I am filled with immense gratitude as I close this chapter and prepare for my new role at Shasta College as Dean of Health Sciences. These years have been nothing short of extraordinary, shaped by natural disasters, an influx of grant and categorical funding, statewide policy changes, and the unprecedented challenges of a global pandemic. Each of these moments has underscored the resilience and dedication of our team, and for that, I am thankful to have worked alongside such an incredible group.

Despite these challenges, the staff and faculty of our Division have consistently risen to the occasion, unwavering in their commitment to serve students. We have persevered through these challenging times, embracing a mindset focused on opportunity and innovation. Faced with the sudden shift to remote learning, our instructors, who traditionally taught in-person, quickly discovered the effectiveness of online learning as complementary tools, enhancing their lab environments. Moreover, many have ingeniously adapted components of their physical labs for the virtual space, which has only enhanced learning and engagement.

About six years ago, the BACTE Division embarked on an initiative to offer more personalized support to

students within our career technical programs. These programs tend to attract more first-generation students, returning older adults, justice-involved individuals, etc. who often benefit from more frequent interventions by our faculty and staff. Looking at the student holistically and building on best practices, a team was created in the Division dedicated to student success. This begins by establishing relationships with perspective students during the outreach and recruitment phase. Once onboard and with a recognized champion at their side, students have a support network as they navigate the educational process catered specifically to the needs of the individual student. Completing the cycle, this student success team is aware of career employment and apprenticeship opportunities once their program of study is completed. While the impact of these measures is quantifiable to our academic programs, the effect it is having on the lives of our students is immeasurable.

Continuing our commitment to innovative approaches, our Division has been at the forefront of several key initiatives aimed at enhancing student success and completion. These initiatives include recognizing prior learning and accelerated educational pathways. Shasta College and the BACTE Division are recognized as statewide leaders in Competency-Based Education among our peers in the California Community College system—a trailblazing effort that began with our Early Childhood Education program. We are actively expanding opportunities in Credit for Prior Learning to acknowledge students' previously acquired skills through career, military, and other learning pursuits. Additionally, we ensure that students who have completed the requisite coursework are duly recognized and awarded completion

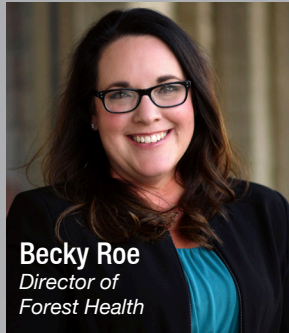
through the Degrees When Due program. These strategies not only honor our students' prior achievements but also accelerate their progress toward successful career outcomes.

Today, our programs are enriched by state-of-the-art instructional lab spaces and industry-recognized up-to-date equipment. However, managing the allocation of tens of millions of dollars brings its own set of challenges, as these funds often come with restrictions and reporting requirements. Yet, purchasing and acquisition is only one aspect of the equation. To ensure that this equipment benefits students for many years, we have adopted a framework within the Division that emphasizes fiscal stewardship, scheduled maintenance, capital outlay, and some revenue generation, which is reinvested back into the programs. Moreover, we have actively sought opportunities for our programs to support and enhance each other. For example, farm equipment used by students in the agriculture program is maintained by students in the diesel technology program. This collaborative approach is replicated across multiple programs within the Division, fostering an integrated learning environment that enhances both educational outcomes and operational efficiency.

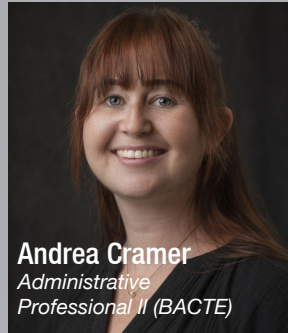
Shasta College and the BACTE Division are dedicated to equipping each student with the skills, knowledge, and competencies necessary for a rewarding career. It has been an honor to work with such an esteemed group of colleagues over the past five years. I am deeply grateful for the opportunity to learn from and grow alongside such an extraordinary team of faculty and staff.

Thank you!
Zack

MEET THE FOREST HEALTH TEAM



Becky Roe
*Director of
Forest Health*



Andrea Cramer
*Administrative
Professional II (BACTE)*



Hannah Cox
*Administrative
Professional II (BACTE)*



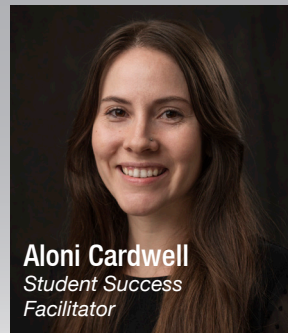
Patricia Cascio
*Administrative Professional
II Forest Health*



Janis Logan
*Program Coordinator-Out-
reach Recruitment*



Kloee Gray
*Student Services
Specialist*



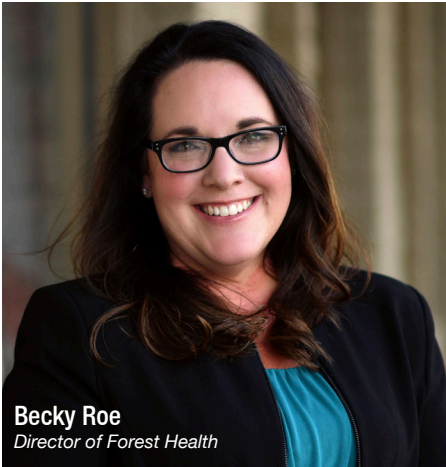
Aloni Cardwell
*Student Success
Facilitator*

FOREST HEALTH STUDENT SUCCESS TEAM



Left to right: Kloee Gray, Aloni Cardwell and Janis Logan

TEAMWORK MAKES THE DREAM WORK



Becky Roe
Director of Forest Health

In 2023-24, Shasta College stepped further into its trusted leadership in the forest sector workforce development space. The College hosted not one, not two, but three milestone events bringing together diverse stakeholders, policymakers, economic and workforce developers, and educators to share challenges, brainstorm solutions, identify opportunities and develop new partnerships.

Thanks to a Herculean effort by nearly every division and department on campus, Shasta College was proud to welcome statewide organizers and attendees of the October 2023 quarterly meeting of California's Wildfire and Forest Resilience Task Force to its Redding campus. The all-day meeting, co-chaired by California Natural

Resources Agency Secretary Wade Crowfoot and US Forest Service's Regional Forester-Pacific Southwest Region Jennifer Eberlein, was followed by a day of field tours and project demonstrations within the region.

In November, Shasta College's Forest Health and Apprenticeship teams assisted the Foundation for California Community Colleges in the hosting and planning of a statewide Forestry Workforce Summit. The Summit format fostered open and candid dialogue between panelists and attendees. And again, Shasta College was honored to be part of leading those discussions with the ongoing objective of encouraging collaboration between stakeholders for the benefit of communities, students, and the forest sector.

The final milestone event hosted by Shasta College was the first official convening summit of the National Forest Operations Training Coalition April 30-May 1, 2024. Several months prior, Shasta College was invited to attend a small roundtable discussion in Minnesota organized by the Wisconsin Forestry Center at University of Wisconsin-Stevens Point. Since then, Shasta College has continued to work with higher education colleagues at UW-Stevens Point, University of Idaho, Northern Arizona University, University of

Arkansas at Monticello, Future Natural Resource Leaders, and others to develop a national coalition of boots-on-the-ground training programs across the country with the objective of leveraging shared operational best practices and training curriculum while exploring sustainable funding models for these types of training programs.

I am proud of the leadership Shasta College and its valued partners continue to provide in the forest sector. What will 2024-25 bring? This year has felt like we, as a team, as an institution, as a sector, have truly come into our own. We stand strong on a solid foundation, ready to build out the next phase of training innovation. There are many opportunities to serve our students with relevant, meaningful skills training to equip them for careers in the forest sector. I can't wait to see what happens next!

This year, the collective we, far beyond the work of just our Forest Health team, lead the sector as a California Community College. Every student, every Shasta College employee, every partner, every stakeholder is part of that collective we. I am honored to be part of that.

Congratulations to Becky Roe on her new role as Senior Manager, Climate Strategies at the Foundation for California Community Colleges.



CA Wildfire and Forest Resilience Task Force Event Hosted at Shasta College.



National Forest Operations Training Coalition 2024 Spring Summit hosted at Shasta College

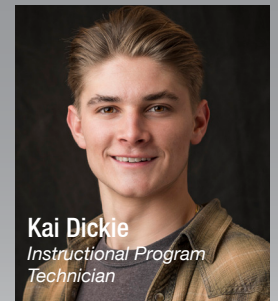
HEAVY EQUIPMENT LOGGING OPERATIONS

Updates from Jonas Lindblom, Heavy Equipment Logging Operations (HELO) instructor

MEET THE TEAM



Jonas Lindblom
HELO Instructor



Kai Dickie
Instructional Program
Technician

This year, new additions to the logging site include a **mini excavator** and **chipper**, along with a **mini skid steer** set to join the equipment lineup for the upcoming fall semester. Between the two cohorts for the year, our students were able to harvest an impressive **seventy-nine truckloads of logs**, which were then delivered to SPI mills for processing.

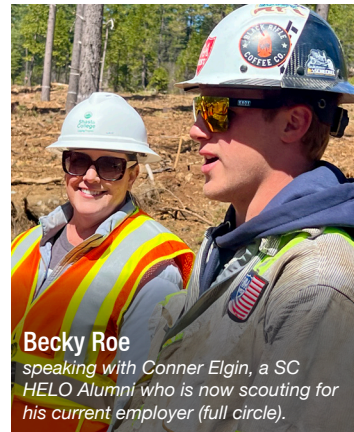
Photos of the Student Skills Showcase:



Logan Hobbs,
HELO Student of the Year, speaking
with industry partners.



Charlie Patterson
cheering her cohort on as students
show off their operating skills.



Becky Roe
speaking with Conner Elgin, a SC
HELO Alumni who is now scouting for
his current employer (full circle).



Jaime Gay

Student Highlight Jaime Gay

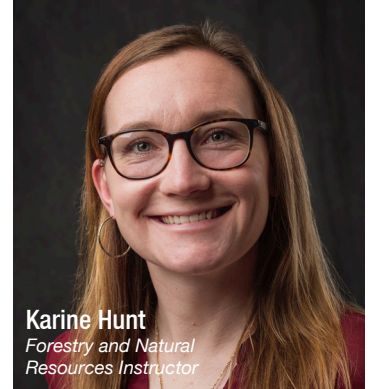
We are excited to highlight **Jaime Gay's** remarkable success story as a single mother of five who took a leap of faith and joined the HELO program. Jaime's skills and dedication were evident during the student skills showcase where she received multiple job offers, and she has now accepted a position with Hearst Forests LLC. Jaime's journey exemplifies the transformative power of education, determination, and hard work. We are incredibly proud of her accomplishments, and we look forward to witnessing her continued success in her new role.

FORESTRY/NATURAL RESOURCES



Melissa Markee
Forestry and Natural Resources Instructor

Forestry and Natural Resources remain at the forefront of providing hands-on learning experiences for students. This year, our students had the opportunity to participate in a variety of outdoor educational experiences and attend industry conferences. Melissa Markee accompanied students to the SAF National Convention in Sacramento and participated on two panels, one was at the Forestry Workforce Summit and the other at the California Licensed Foresters Association fall workshop. Furthermore, students from her AGNR 55 class had the privilege of attending the Spring California Licensed Foresters Association meeting, enhancing their industry knowledge and networking opportunities.



Karine Hunt
Forestry and Natural Resources Instructor

We are thrilled to announce our new hire, Karine Hunt. She joined Shasta College in the Spring as a full time Forestry and Natural resources instructor. Karine earned her RPF (registered professional forester) shortly after joining our Forest Health team. Way to go Karine!



Natural Resources club members



Mill Tour Field Trip

Pictured above are Natural Resources club members who carefully dug up ~65 blue oak seedlings, capturing the entire tap root, and potting them to be cared for in the Horticulture Program's greenhouse area until late next fall. Once it cools down after summer, the club will collaborate with Shasta College grounds staff to determine where to plant the oaks within the appropriate restoration areas designated as Tree Mitigation Sites in the college's CEQA Mitigation Plan.

Forestry & Natural Resources outstanding student of the year, **Katie Howlett**



Katie Howlett
Forestry & Natural Resources outstanding student of the year

"I arrived at Shasta College in the fall of 2022 unsure of what my career path would look like. The only thing I knew for certain was that I wanted to work outdoors and play a role in preserving the integrity of our forests and wild spaces. Throughout the 2 years I spent at SC pursuing my AS in Forest Science and Technology, I encountered numerous opportunities to explore my interests, work in the field, and connect with knowledgeable mentors, professors, peers, and industry professionals. All these encounters guided me to my current position working as a Forestry Aide with Cal-Fire. This position grants me the opportunity to live and work in beautiful scenery, as well as apply what I have learned in classes to real-world projects.

Though my time at SC has come to an end, the desire for continued learning I gained there will continue to follow and guide me throughout all aspects of my life and career. I am forever grateful for the experience.

I remain unsure of my exact career path, but I know now that I have support, resources, and a background that will allow me to thrive wherever I go in this field."

Congratulations Katie!

EQUIPMENT OPERATIONS AND MAINTENANCE

The Equipment Operations and Maintenance program has made significant strides and improvements throughout the year. They recently acquired five new pieces of heavy equipment along with multiple attachments, which have allowed them to expand the training grounds. In addition to the new equipment, they have doubled their digital mapping and upgraded the equipment in the wood shop, which now includes cordless tools. Furthermore, they have expanded their sawmill operations to include a 20ft dry kiln.

Instructor Troy Towery expressed his excitement about these additions, noting that they will not only increase student seat time operating, but also the overall capacity of the classes.

The students have been actively involved in completing various projects on campus, such as finishing gravel roads, clearing overgrown areas for fire safety, and enhancing other campus beautification projects.

Pictured right are students working on a campus project collaborated by our heavy equipment program in partnership with the horticulture program.

Our students' success speaks volumes about the program's effectiveness. By the time they were three-quarters through the program, an impressive **70%** of our students had already received job offers. Instructor Pete Dickerson emphasized the significance of this achievement and the readiness of our students for the workforce.

Outstanding HEO Student of the Year: Wade Reginato

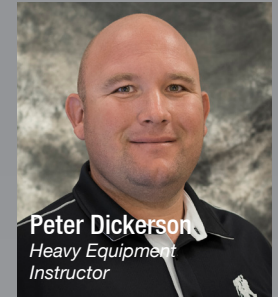
Most Improved HEO Student of the Year: Cody Norbury

Most Resilient Student of the Year: Abigail Mandville



Abigail Mandville
Most Resilient Student of the Year

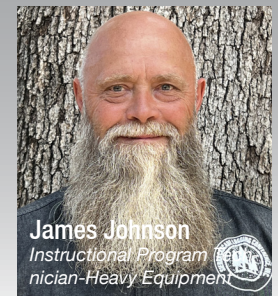
MEET THE TEAM



Peter Dickerson
Heavy Equipment
Instructor



Troy Towery
Heavy Equipment
Instructor



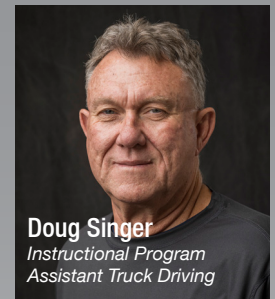
James Johnson
Instructional Program
Instructor-Heavy Equipment

TRUCK DRIVING: CDL CLASS A/B TRAINING

At Shasta College, our professional expert truck driving team, led by Clancy Mitchell, has demonstrated pure dedication to our students, ensuring their success in the truck driving industry. This year, 57 students received their Commercial Driver's License (CDL), a testament to their hard work and the guidance provided by instructor Mitchell and his team of experts.

In addition, they have enhanced their training fleet with the addition of four new flatbed trailers, offering our students valuable hands-on experience. We commend Clancy Mitchell and his team for their commitment to excellence and our students for their achievements in the CDL driver's license training. Here's to continued success and growth in the year ahead.

MEET THE TEAM



Professional Experts:

- Al Cardwell
- Glenda Cole
- Dave Parker
- Kees Van Vugt

CRAFT

The California Registered Apprenticeship Forest Training (CRAFT) hosted another successful student skills showcase, with 80% of students receiving job offers in the first cohort—a number that rose to 100% in the second cohort. As the HELO program continues to produce graduates, it is evident that there is a demand for employment in the logging/forestry/natural resources industry. This further emphasizes the importance of our training programs in partnership with the CRAFT apprenticeship in meeting workforce needs.



Lisa Hoveman Director of Apprenticeship, speaking with industry.



Christopher Hockenberry

CRAFT

CALIFORNIA REGISTERED APPRENTICESHIP FOREST TRAINING

Student Skills Showcase event hosted by California Registered Apprenticeship Forest Training (CRAFT)



Logan Hobbs & Christopher Maughns



Ted James & Angela Cordell



Kyra Lierly

Student Highlight Kyra Lierly

An apprentice at Creekside Logging, **Kyra** is currently engaged in field work for Sierra Pacific Industries over the summer. Upon her return to Shasta College in the fall to complete her last year in Agriculture-Forest Science and Technology, she aims to obtain her AS degree. Kyra's ambition is to pursue a career as a forester, with an interest in working for either Sierra Pacific Industries or Cal Fire. Her dedication and passion make it evident that she will not only achieve her goal but surpass expectations in her endeavors.

DEPARTMENT EVENTS



California Conservation Corps HEO Tour



California Conservation Corps Fire Academy Tour



California Conservation Corps Tour with Melissa Markee



SOLC Set-up Heavy Equipment Students



Future logger



California Conservation Corps Fire Academy Tour



Chill n Grill



State FFA Leadership Conference



Chill n Grill



Chill n Grill



Chill n Grill



InWoods event

DEPARTMENT EVENTS



StepUp Stakeholder Tour



Trio Career Day



Anderson High School SPI Event



Stem Career Day



Trio Career Day



Stem Career Day



Red Bluff College and Career Day



Sierra Cascade Logging Conference

Forest Health Initiative funded by:



Our Partners:

- 5D Solutions, Inc.
- Associated California Loggers
- Axner Excavating, Inc.
- Bureau of Land Management
- California Highway Patrol
- California Licensed Foresters Association
- Cedar Creek Corporation
- Creekside Logging
- Del Logging, Inc.
- Fall River Resource Conservation District
- Hat Creek Construction & Materials, Inc.
- Lepage Company Incorporated
- Logger's Association of Northern California, Inc.
- Meyers Earthwork, Inc.
- Muse Trucking
- Pape Machinery
- Peterson CAT
- Peterson Timber
- Sierra Pacific Industries
- Sierra Pacific Windows
- Sierra-Cascade Logging Conference, Inc.
- US Forest Service
- CA Licensed Foresters Assoc.
- Western Shasta Resource Conservation District

In compliance with Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and the Age Discrimination Act of 1975, Shasta College does not discriminate on the basis of race, color, national origin, sex, handicap, or age in employment, in any of its educational programs, or in the provision of benefits and services to its students. A lack of English language skills and/or visual and hearing impairment will not be a barrier to admission or participation in any educational program, including Career Technical Education.



Shasta College

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