Welcome and congratulations for being a part of the Spring 2020 Sugarloaf Ridge State Park California Naturalist Program facilitated by Sonoma Ecology Center.

Please contact Tony@sonomaecologycenter.org/707-996-0712 x124 if you have any problems with the registration process. Full refunds, minus a $50 processing fee, permitted until March 9.

Lead Instructor: Tony Passantino email: Tony@sonomaecologycenter.org, (707)996-0712x124; Caitlin Cornwall email Caitlin@sonomaecologycenter.org, (707)996-0712x105

Lead Instructor: Tony Passantino, Education Program Manager—BA in Geography/Environmental Studies, UCLA

Tony Passantino has extensive knowledge of watershed dynamics and the local ecology of Sugarloaf Park through his coursework in Environmental Studies at UCLA, and significant experience in leading place-based education curricula since 2012 at Sugarloaf Park. He is a certified through Project WET, Project WILD and Project Learning Tree, an Aldo Leopold Foundation graduate and Backcountry Leadership instructor through Bay Area Wilderness Training. He has worked on watershed education and conservation for an international non-profit focused Tahoe-Baikal Institute, and worked for AmeriCorps at Lake Tahoe on sediment erosion and Best Management Practices. Tony has a talent for leading groups in field-based learning projects, which he brings to his work with students on field trips, summer camps, and classroom programs. He is an avid trail runner and backpacker, recently returning from a 3-month sabbatical, guiding backpacking trips through the Western Highlands of Guatemala. At Sonoma Ecology Center, he leads an educator team that provides free lessons to Sonoma Valley elementary school classes, oversees the Teen EnviroLeaders program and is the Sugarloaf Park Education Coordinator.

Support Staff: Caitlin Cornwall, Research Program Director, B.A. Ecology and Integrative Biology, UC Berkeley/ M.S. Plant Biology & Ecology, ASU

Caitlin has been with Sonoma Ecology Center since 1998. Her expertise includes indicator-based reporting systems, climate adaptation, technical partnerships for local-scale multiple stakeholders, multi-benefit water management strategy, wildlife habitat connectivity, and riparian Her graduate coursework was in statistics, fluvial geomorphology, soils, plant ecology, and study design. Caitlin is also
on the Climate Bay Area adaptation expert advisory group, San Francisco Bay Joint Policy Committee (Association of Bay Area Governments, Metropolitan Transportation Commission, and Bay Conservation & Development Commission.

**Directions to Robert Ferguson Observatory**

2605 Adobe Canyon Road, Kenwood, CA 95452-9065

Sugarloaf Park (707)833-5712   Robert Ferguson Observatory (707) 833-6979

From Highway 12 east of Santa Rosa, turn on Adobe Canyon Road toward Sugarloaf Ridge State Park. Follow the road up the canyon. From the Park’s entrance kiosk, proceed straight up the road, following the signs to the observatory. Please drive slowly—hikers and animals abound!

Just past the horse corrals, you will come to a green gate. Drive past the gate, if it’s not open then park in the gravel area between the corrals and the green gate, then walk past the gate up the road a short distance to the observatory.

**What to Wear:**

Warm layers, gloves and hats. Wool socks and sturdy shoes are helpful. As we get later into the season the room may be cold before the heater kicks in and there may be times that we’ll be outside for part of the lecture series. Bring a small flashlight for the evening walks back to your car.

**Course Description:**

The California Naturalist Program seeks to foster a committed corps of volunteer naturalists and citizen scientists trained and ready to take an active role in natural resource conservation, education, and restoration. The California Naturalist course will introduce you to the wonders of our local ecology and engage you in the stewardship of California’s natural communities. The course will combine a science curriculum with guest lecturers, field trips and project-based learning to immerse you in the natural world of the Inner ridge of the Mayacama Mountains. By the end of this course, participants will be able to:

- Understand what it means to be a naturalist
- Understand the abiotic, biotic and cultural factors that make California and the Sonoma Valley natural history and ecology
- Demonstrate skills in making and recording natural history observations in a field notebook and on iNaturalist.org
- Demonstrate skills in communicating and interpreting natural resource information
- Apply knowledge of Sonoma Valley ecosystems to local and global environmental issues.
Components of the Course:

Class & Readings
The class will be held weekly on Tuesdays with two exceptions, class will be held on Thursday March 26 on week three and an additional class to our normal Tuesday course meeting time will be held on Friday, May 8 of week nine. For clarification on dates and times, refer to the class schedule below. All classes run from 6-8:30pm, starting March 10 and ending May 9, 2020.

Class will be held at the Robert Ferguson Observatory, 2605 Adobe Canyon Road, Kenwood CA 95476 unless otherwise noted. In preparation for lectures, all assigned readings and corresponding homework assignments from the California Naturalist Handbook should be completed before each class where they appear on the syllabus. Evening classes will be a mix of activities with guest lecturers, classroom lecture, discussion, and a small snack break. Please dress appropriately for the class as we may be outside for certain lectures.

Field Trips
Saturday Field trips will be held on April 4, April 18, May 2 and May 9. Each fieldtrip will run from approximately 8:30am – 1:30pm, with the exception of May 9, which will run from 5:00am-8:30am and will include an optional overnight camping trip on Friday, May 8. We will meet at a designated area that will be identified during the previous class. Participants may not bring guests or children on any field trips.

What to bring on the Fieldtrip:
• Sturdy walking shoes
• Field Journal
• Dress in layers (cold in the morning but heats up in the afternoon)
• Shade hat
• Sunscreen
• Water bottle
• Cell phone for iNaturalist Program
• Lunch and snacks
• Daypack
• Personal medicine
• Hiking Poles (optional)
• Binoculars (optional, recommend)
• Field guides (optional)

Graduation day
Graduation/Capstone day will be on Tuesday, May 5th at Robert Ferguson and the group campground adjacent to it. Family and friends are welcome to attend the final day.

Field Notebooks
All participants are required to keep a field notebook during the course. Field notebooks may be checked by the instructor periodically during the class or at the end. We will be using these
notebooks during class, on field trips and hopefully on your own time. Keeping a field notebook is one of the best ways of fostering continued learning and getting to know a place intimately. Do not worry about getting anything fancy; a simple blank or lined notebook/journal will suffice.

**iNaturalist**

Over the course of the California Naturalist class, each participant will be responsible for registering for an iNaturalist account (http://www.inaturalist.org/) and adding at least 3 observations per week. We will go over the iNaturalist web tool on the first day of class.

**Capstone Project**

Participants are required to complete a volunteer service project in one of four areas: Stewardship, Education/Interpretation, Citizen Science and Program Support. The Capstone project provides an opportunity for participants to integrate the in-class material with an applied work project that is done in conjunction with a natural resource agency or organization. Participants are encouraged to work in teams when appropriate, and in the final class will deliver individual or group presentations on the projects. Presentations will be 5 minutes long per person (so 15 minutes for a 3 person group). The instructor will provide a Capstone project proposal form, list of potential project ideas, and feedback as necessary. Participants who would like to propose a Capstone project that is not on the list will have an opportunity to do so.

**Attendance**

Participants must attend all evening classes. If an evening class is missed, the participant will be expected to complete make-up activities on their own time at the direction of the instructor. Please talk to me if you are going to miss a class. Only one evening class session can be missed. Field trip should not be missed as there is no way that a missed field trip cannot be made up.

**Homework**

Reading is assigned for each class meeting (check the class schedule below), based on the topic to be covered that day. Participants are expected to read the chapters assigned for that day before the class meeting times, so that the materials are more relevant as they are presented.

**Volunteer management system (VMS):**

Participants will be provided an on-line account to track their volunteer hours, including hours spent on their Capstone project. Tracking volunteer hours is an essential way to prove need and impact of a program like the California Naturalist Program.

**Other Information**

Eating during class is allowed. Each individual will be responsible for their own food and drink.

**Required Items:**

2. A field notebook for nature observations and drawings, pencil(s).
3. Suggested but Not Required: hand lens (10x), binoculars, camera
**Recommended supplemental reading:**

*Secrets of the Oak Woodlands: Plants and Animals Among California’s*, Kate Marianchild


*An Island called California*, Bakker, E., University of California Press: 1984


*Introduction to California Plant Life* (California Natural History Guides, 69), Ornduff et al., UC Press: 2003

*Trees and Shrubs of California* (Calif. Natural History Guides 62), Stuart, Sawyer, UC Press: 2001


*Mammals of California* (California Natural History Guides, 66), Jameson and Peters, UC Press: 2004


**Class Schedule:**

All evening classes are scheduled from 6:00-8:30pm and all Saturday Fieldtrips are from 8:30-1:30pm with the exception of May 9 (5:00-9:00am).

March 10: CA Natural Resources, Communication, and Journaling; Nuts and Bolts of the Program
Guest speaker: Tony Passantino, Education Program Manager

Reading: Chapter 1 California Natural History & Role of Naturalists

March 17: Citizen Science and Interpretation
Guest speakers: Alison Young, Cal Academy of Science

Reading: Chapter 8, Citizen Science

(Thurs) March 26: Geology, Soils & Climate
Guest speaker: Scott Lawyer, Field Operations Manager and Geologist, Stewards of the Coast and Redwoods

Reading: Chapter 2 Geology, Climate and Soils

March 31: Water
Guest speaker: Steve Lee, Research Director for Sonoma Ecology Center, UCLA
April 4: FIELDTRIP on Water and Geology
Calabazas Creek Preserve, Wendy Hayes, Research Specialist, Sonoma Ecology Center

April 7: Forest and Woodland Resources
Guest speaker: Jason Mills, Restoration Manager Sonoma Ecology Center
Reading: Chapter 5 Forest and Woodland resources

April 14: Plants
Guest speaker: David Herlocker, Retired Naturalist Marin Open Space District
Reading: Chapter 4 Plants

April 18: Field Trip- Van Hoosear Wildflower Preserve with Caitlin Cornwall, SEC

April 21: Animals
Guest speakers: David Herlocker, Retired Naturalist for Marin Open Space

April 28: Energy and Global Environmental Challenges
Guest speaker: Caitlin Cornwall, Sustainable Sonoma
Reading: Chapter 7 Energy and Global Environmental Issue

May 2: Field trip- Sugarloaf Ridge State Park, Animal Walk with David Herlocker

May 5: Capstone Presentations

(Friday) May 8: History of Sonoma Valley Place and People Campfire Session & Optional Sugarloaf Campout
Guest Speakers: Retired CA State Park retired state archeologist, Breck Parkman, RFO Docents, Bernie Krause, Soundscape Ecologist

May 9: Fieldtrip SPECIAL TIME (5:00-8:30am)- Sugarloaf Ridge State Park with Bernie Krause and farewell breakfast.