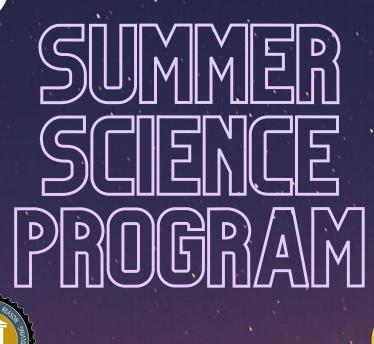
CALIFORNIA NORTHSTATE UNIVERSITY PRESENTS





COLLEGE OF HEALTH SCIENCES June 21st-25th, 2021

CNU is following all federal, state, and local guidelines regarding the COVID-19 pandemic.









Summer Science Program 2021

Criminal Arrest vs. Cardiac Arrest- The Case of Jimmi the Jerk

Lead Instructors: Lael McAuliffe and Joanie Block of KIMS Seattle

CNU+KIMSeattle have partnered together to create an immersive forensic science experience intended to maximize student's hands-on time with authentic laboratory equipment and skill-building activities to solve a fictitious, yet realistic, crime scene simulation. Evidence is collected from a recreated crime scene for laboratory analysis involving more than seven different fields of study in forensic science. Some of these labs include: ABO blood typing, toxicology, hair morphology, fingerprinting, cardiac dissection (pathology), and DNA gel electrophoresis. Morning Session - Appropriate for middle and high school students!

Microbiology- Discovering the World Around Us Lead Faculty: Dr. Damon Meyer

Examine the incredible world of microbiology by exploring the abundance and diversity of microorganisms found all around us. Participants will learn to use standard microbiology laboratory techniques to identify and characterize a variety of microorganisms.

Morning Session - Appropriate for middle and high school students!!

Computational Small Molecule Pharmaceutical Discovery

Lead Faculty: Dr. Nicholas Valley

Pharmaceuticals - whether over-the-counter or prescription - are a very common and sometimes essential part of many people's lives. The road to generate a pharmaceutical is a long, varied, and arduous one - full of pitfalls. Often, to help streamline the process, computers can help guide scientist's efforts to sets of molecules that have a better chance of success. Small molecule pharmaceuticals are used in a broad range of applications from fighting cancer to relieving pain and inflammation. In this summer experience, you will learn some of the properties that make a pharmaceutical viable and how to use various computer simulations and databases to predict those properties for novel molecules. Attendees will choose a biologically relevant target, draw viable molecular structures, and determine the binding affinity of the molecular structures to the intended target.

Morning Session - Appropriate for high school students!

Get Bright with Biotech: The Biology of Fluorescence

Lead Faculty: Dr. Heather M. Brown

Learn about the exciting field of biotechnology through hands on laboratory experiences! Students will engage in lab techniques commonly used in academic and industry labs while exploring applications in biomedical and agricultural fields! These activities include: CRISPR-Cas9 gene editing, Disease diagnosis, DNA transformation (we will make bacteria glow!) and identifying GMO's in food using PCR! Afternoon Session - Appropriate for middle and high school students!

Skulls & Bones: Investigating human mysteries, solving wildlife crimes, and exploring orthopedics. Lead Instructors: Lael McAuliffe and Joanie Block of KIMS Seattle

Participants of the Skulls & Bones Summer Camp will learn about physical, biological, evolutionary, and paleo anthropology to take on roles like: anatomist, osteologist, mammologist, forensic anthropologist, orthopedic surgeon, and facial reconstruction artist. By exploring a particular career cluster in this way, participants will be exposed to a broad category of occupations grouped by knowledge and skills required – to connect learning to life goals. Activities MAY include: Stature estimation from long bones, sex estimation from pelvises and skulls, geographic affiliation (ancestry, or continent of origin), knee replacement simulation and suturing, wildlife skull identification, and forensic facial reconstruction. Afternoon Session - Appropriate for middle and high school students!

Phun-Physics!

Lead Faculty: Dr. Armela Keqi

Are you fascinated by the concept of projectile motion? Do you have an interest in building circuits? Are you interested in measuring the speed of sound? Dive in head first as we explore the wonderful world of physics, with topics that include mechanics, electricity, and fluid dynamics, and more! Student's will end the week by designing their own experiment in one of the areas we explore!

Afternoon Session - Appropriate for middle and high school students!



Bring some science to your summer and join us for a week of exploration and fun at California Northstate University, College of Health Sciences!

For more information and to register online, visit www.healthsciences.cnsu.edu or email CHS.Sciences@cnsu.edu



Summer Science Program Registration

Final date to apply is June 14th, 2021. Payment is due at time of registration. In the event of cancellation due to Covid-19 state mandated regulations, full refunds will be given. Anyone needing to cancel before the start date will also be entitled to a full refund.

PLEASE PRINT	
Name:	Age:
Last First	
Address:	
Street	
City	State Zip
E-mail:	
Home Phone: ()	Cell Phone: ()
How did you hear about our program: website frier	nd/family school other
Medical conditions we should be aware of:	
School currently attending:	Current grade level: 7 th 8 th 9 th 10 th 11 th 12 th
Program Session:	
Criminal Arrest vs. Cardiac Arrest June 21-25 th , 9:00 am – 12:00 pm	Get Bright with Biotech: The Biology of Fluorescence June 21-25 th , 1:00pm – 4:00 pm
Microbiology: Discovering the World Around Us June 21-25 th , 9:00 am – 12:00 pm	Skulls & Bones June 21-25 th , 1:00pm – 4:00 pm
Computational Small Molecule Pharmaceutical Discovery June 21-25 th , 9:00 am – 12:00 pm	Phun-Physics! June 21-25 th , 1:00pm – 4:00 pm

Program Fee: \$250.00 for half-day or \$475.00 for full-day

Parent/Legal Guardian Signature

Print Name

Date

NOTE: PLEASE VISIT www.healthsciences.cnsu.edu and complete all registration forms found at the summer science program link. Please make checks payable to: CALIFORNIA NORTHSTATE UNIVERSITY

MAIL ALL REGISTRATION FORMS AND PAYMENT TO: CNU College of Health Sciences ATTN: Katie Caswell Summer Science Program 2910 Prospect Park Drive Rancho Cordova, CA 95670

If you have any questions, please email CHS.Sciences@cnsu.edu or call 916-686-7674

California Northstate University Summer Science Camp Waiver and Release

In consideration for the services of California Northstate University, its faculty, officers, agents, employees, trustees and all other persons associated with the University (collectively, "the University"), I, _______ do hereby consent to my or my child's participation in the University Summer Science Camp and related activities (herein after, the "Camp"). I understand that the camp is a 5 day program designed to encourage scientific interest and will involve hands-on activities and laboratory experiences. I understand that the camp commences each day at 9:00am and ends at approximately 5:00pm, and that it is my responsibility to ensure my or my child's care and custody at the latter time unless prior arrangements have been made with the University to extend the pickup time to 5:00pm, which will incur an extra fee of \$10 per day. Camp organizers and their agents shall not be responsible for my or my child's safety and supervision before or after the time that the camp is in session unless prior arrangements have been made.

In consideration of my or my child's attendance at the Camp, I hereby assume all responsibility for any injury to or accident involving my child or me which occurs while my child or I is participating in the Camp(s) or related event(s). I make this assumption of the risk of injury with the understanding that the camp [program includes hands-on, laboratory, or mechanical work. I give permission to the Camp and the University to obtain reasonable emergency medical care for my child or me if it is deemed reasonably necessary by the Camp or University.

I understand that during Camp my child or I will be asked and permitted to use me or my child's laptop computer to access the internet regarding Camp projects and activities. I understand that access to a computer allows the user to access some material that may not be considered appropriate in a youth camp setting. While camp staff will make reasonable efforts to restrict the access to questionable material, the possibility of intentional or inadvertent access still exists. Repeated violations of accessing inappropriate content will lead to disciplinary actions, such as parental phone call and possible removal from Camp without monetary reimbursement. The University has notified me that it will attempt to monitor attendees' use of computers to restrict access to controversial materials, and I will not hold the university responsible for materials my child or I acquire from the internet. There are additional rules regarding cell phone usage, to which all students are expected to follow.

I hereby _____ give permission/ _____ do not give permission (please place your initials before your response) for my child or me to be photographed or videotaped in conjunction with Camp activities, which made be shared over electronic or other media.

I have read and understand the terms and conditions of the Camp. I acknowledge that the Camp organizers and the University reserve the right to cancel the Camp due to lack of funds, inadequate number of Camp registrants, or any other reason at their discretion and, upon doing so, will refund the entire tuition amount. I acknowledge that they further reserve the right to refuse participation to any participant for rule infractions, objectionable behavior, or attire. I agree that the Camp is a professional education event, that medically sensitive material of a non-sexual but graphic nature may be presented, and that mature and respectful behavior is a reasonable expectation.

I, for myself, my child if applicable, and my assigns, heirs, and executors, hereby release and forever discharge the University, Camp organizers, sponsors, promoters, and each of their respective agents, employees, representatives, successors and assigns, and all other persons associated with the University and Camp, for all damages, injuries, expenses, costs, claims, liabilities, and actions which my child and/or I may have against them arising out of or in any way connected with me or my child, without regard to its cause by negligence, acts, omissions, or other wrongdoings by any of the released persons or entities; this release shall also act as a waiver of all such claims, liabilities, and actions.

I have carefully read, understand, and hereby accept the terms and conditions stated herein, and acknowledge this agreement shall be effective and binding upon myself and my children, assigns, heirs, and executives.

Signature of Camp Attendee (Required of All)

Signature of Parent or Legal Guardian (*Required if Child is Under 18 Years Old*)

Name of Camp Attendee (Please Print)

Name of Parent of Legal Guardian (Please Print)

Date Signed (MM/DD/YYYY): _____

Birthdate (MM/DD/YYYY): _____ Date Signed (MM/DD/YYYY): _____



MEDIA CONSENT

I hereby grant to California Northstate University College of Health Sciences and its agents and assigns the unlimited right to use my name and images and recordings of me in any format or medium chosen by California Northstate University College of Health Sciences for any purpose whatsoever in the sole discretion of the College, including but not by way of limitation for purposes of announcing and publicizing the College, its programs, and its affiliates. I hereby consent to the production and distribution of any and all such information, recordings, and images by publication, broadcast, and any other means of distribution.

I hereby agree that I neither have nor shall have any right of approval, claim for compensation, or any other claim against California Northstate University College of Health Sciences, its agents, or its assigns for any claim arising out of the use of my information, recordings, and/or images described in this Media Consent Form. I hereby further agree to indemnify and hold harmless California Northstate University College of Health Sciences, and all damages, judgments, expenses, and costs, including but not limited to court costs and attorneys' fees, for any claim asserted by a third party as a result of my assignment or other transfer to such third party of the rights I am granting in this Media Consent Form.

I understand and acknowledge that California Northstate University College of Health Sciences may not be able to control how news media organizations and others may use, publish, and distribute information about me once it has been released; notwithstanding this understanding I nevertheless grant to California Northstate University College of Health Sciences the rights described herein.

{Please check one}

□ Faculty

□ CHS Prospective Student

CNU Guest

□ Staff

□ CHS Student

Print Name

Student ID#

Signature

Date



On Campus Strategies for COVID-19

Ventilation: CNU's 3 main campus buildings, 9700 West Taron Drive Elk Grove, 2910 Prospect Park Drive Rancho Cordova and 2920 Prospect Drive Rancho Cordova, HVAC (Heating Ventilation and Air Conditioning) systems were all updated in March with a new system called Global Plasma Solutions (GPS) which is a particle reduction, odor reduction, pathogen reduction and energy saving system. As of June 2nd CNU received their first test results from Innovation Bioanalysis which tested the effectiveness of the system against COVID-19. Efficacy testing showed that upon exposure to bipolar ionization for 30 minutes, 99.4% of the SARS-CoV-2 virus was inactivated. This ionization technology inactivates the viral receptors and renders the virus <u>ineffective</u>, thus eliminating its ability to bind to and infect cells.

Building Improvements: Increased the number of hand sanitizing stations throughout all CNU buildings. Added sanitizing stations that include paper towels and disinfecting solution for people to use to at their work stations. Adding Plexiglas barriers to the front desk reception areas in all buildings.

Face Mask: Face mask are required to wear on campus and in public areas. Mask can be removed while eating and drinking and when in a private study room/office. Additional masks are available at the front desk. See attached policy.

Classroom Strategies Implemented: Separating all desks to comply with the 6-ft social distancing guidelines, <u>please do not move the desk in the classrooms</u>. For larger classrooms, we will use one door for entrance and one for exiting. Doors will remain open to reduce the number of people touching the handles; the faculty member will close and open for lectures. Faculty will remind students of the sanitizing stations, entrance/exits, and remind them to refrain from congregating in the lobby.

Lobby/Hallway Strategies Implemented: Placing directional signs for entering the building for thermal temperature checks. The security guard will help maintain the 6-ft social distancing guidelines and encourage individuals to refrain from large group gatherings in public areas.

Informational Posters: Informational posters about COVID-19 and how to protect yourself and others have been placed around all campus buildings. Posters include: How to Safely Wear and Take Off a Cloth Covering, COVID-19: Quarantine vs. Isolation, What you should know about COVID-19 to Protect Yourself and Others, How to Properly Wash Your Hands, Restroom etiquette, etc. All information posters are directly from the CDC website.

Thermal Imagining: Due to the recent COVID-19 pandemic, California Northstate University is implementing temperature checks using a thermal imaging system. This temperature check applies to all faculty, staff, students, vendors, and visitors entering a CNU building. All individuals must enter through the main entrance. Individuals screened with a temperature greater than 100.0°F will not be admitted inside CNU nor any other University building. If an increased temperature is detected, a secondary screening will take place using a touchless inferred thermometer. If a temperature is detected, the individual will be instructed to leave the campus immediately. The employee must contact their supervisor and the student must submit an excused absence to the appropriate department. The individuals name and temperature will be recorded and logged by the front desk. If a temperature is not detected the individual may proceed. For information on how the system works, please see CNU's Temperature Screening Policy.



Janitorial Cleaning: Increased frequency of cleaning throughout all campus buildings. Increased frequency of deep cleaning using Electrostatic Sprayers which are used to kill viruses, bacteria and pathogens on surfaces (2x per month). Increased cleaning of restrooms and other common areas including door handles (3x per day).

Cafeteria: Ensuring tables are 6 feet apart and limiting the number of chairs per table. Posting signs noting the appropriate number individuals that should be in the cafeteria at one time.

Counseling Service: Personal counseling services are available to all students at no charge. The Counseling Center has Telehealth Services available to all Students. To request an appointment, please e-mail <u>Katelyn.shields@cnsu.edu</u> for Elk Grove Campus or <u>Tracy.schwartz@cnsu.edu</u> for Rancho Cordova campus. The counseling center uses a HIPPA compliant confidential platform called Doxy.Me. The counselors routinely send out resources on managing mental health during the COVID-19 pandemic, along with free digital mental health resources that are currently available for the duration of the pandemic.

Mandatory Self-Reporting and Communication Policy and Procedure (Student and Employee): CNU will be requiring all individuals to self-report if they have a COVID-19 Diagnosis and potential exposure to COVID-19 to ensure the safety of the campus community. CNU will monitor state guidelines and update the policy as needed. Please see the attached policy for further details.