Strengthen your expertise in human genomics!
DNA & RNA Sequencing

15-WEEK COURSE BEGINS AUGUST 30, 2022
DEADLINE TO APPLY: AUGUST 15, 2022
CLASS MEETS WEEKLY ONLINE VIA ZOOM, FROM 6:30–8:00 P.M. PT

As human genomics research rapidly moves from promise to practice, the importance of foundational knowledge in human genomics and its applications for healthcare and drug discovery is becoming more vital for professionals in a wide variety of settings.

The class, DNA & RNA Sequencing, will discuss current and emerging strategies and technologies for short and long read sequencing of both DNA and RNA. Participants will employ bioinformatic workflows for analyzing genomic and transcriptomic sequencing data for research and clinical purposes and identify challenges in data management and quality control when executing NGS workflows. The course will also expose students to sequencing-based applications such as single cell DNA- and RNA-seq, ChIP-seq, FAIRE-seq, and more..

Keck Graduate Institute (KGI) has a reputation for preparing students for industry with hands-on, active learning. As a student in this course, you will be a part of a dynamic learning community within The Claremont Colleges.

CLICK HERE FOR MORE INFORMATION
FAQ

How much does this course cost?
This course is $1,980 for 3 credit units.

Is the course entirely online?
Yes, the course will be entirely online and will include both synchronous meetings and asynchronous work. The course will be delivered using the Canvas course platform and Zoom.

How much time can I expect to spend on coursework between class sessions?
There will be a minimum of approximately 1.5 hours of asynchronous work required between class sessions.

What do I need to do to apply for the course?
- Complete a brief application
- Submit a short statement of interest
- Submit your resume or CV
- Provide professional contact who will complete a brief recommendation form

Where do I find the application?
Visit the apply page. Select “CAG 90020 DNA & RNA Sequencing” as your Program of Interest. Select “Fall 2022” for the Term. Continue with the application. There is no application fee.

Are there pre-requisites for this course?
Successful completion of CAG 9001 or an advanced degree in a relevant field of biology (Masters, PhD, MD, etc.) is required for admission.

Does the course carry credit?
Yes, this course carries 3.0 credits.

May I take this as an individual course?
You may enroll either as a stand alone course or continue to complete the Certificate in Applied Genomics.

What is the Certificate in Applied Genomics?
Developed with funding from Amgen, the Certificate in Applied Genomics will provide professionals in the life and health sciences with an understanding and appreciation for the science behind the headlines and the tools to dive into the data analysis challenges and ethical considerations in this rapidly changing field.

What courses are in the Certificate in Applied Genomics?
- Applied Genomics – Translating Concept to Clinic (1.5 credits)
- Human Variation and Disease (3 credits)
- Clinical Genetics: Actionability and Genome Editing (3 credits)
- DNA & RNA Sequencing (3 credits)
- Epigenomics (3 credits)
- Applied Genomics Capstone (1.5 credits)

How do I get more information about this course and the Certificate in Applied Genomics?
You can email admissions@kgi.edu for additional information or visit kgi.edu/cag.