UCLA CEILS

Center for Education Innovation & Learning in the Sciences

Where Innovation is *Bruin*

Mission Statement:

The Center for Education Innovation & Learning in the Sciences (CEILS) creates a collaborative community of instructors committed to advancing teaching excellence, assessment, diversity, and scholarship, resulting in the enhancement of student learning experiences at UCLA.

Workshops and Institutes

For instructors seeking assistance with course design, implementing active learning and inclusive teaching, or use of instructional technology.

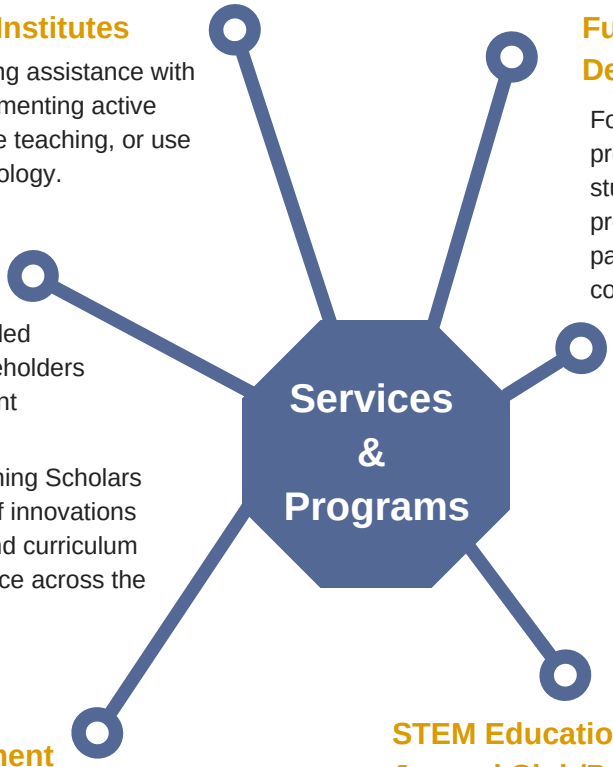
Future Faculty Professional Development

Fostering access to education resources and promoting scientific teaching among graduate students and postdoctoral scholars in preparation for an academic career (including participation in CIRTL@UCLA learning communities).

Special Events

Dean-sponsored or grant-funded events bringing together stakeholders from across campus on student success issues.

- Visiting Scientific Teaching Scholars describe the diversity of innovations in science education and curriculum development taking place across the country.



Individual Faculty Consultations & Classroom Observations

CEILS staff and instructional consultants provide training in course design, evidence-based teaching in small and large classrooms, technology assistance, assessment, and mentoring about effective, equitable, and inclusive teaching practices.

Professional Development for Faculty & Instructors

Access tools and resources on our website, schedule an appointment, or attend a CEILS event

STEM Education Research Journal Club/Professional Learning Community Meetings:

Faculty, postdocs, and graduate students explore and critically evaluate education literature to improve knowledge of teaching practices, assessment instruments and analytical methods used in education research.

Jobs & Fellowships

Opportunities for future faculty interested in careers with a connection to teaching, science education, and DBER.

Online Resources

- Teaching Guides
- Grant funding sources
- National reports in STEM education
- Assessment resources
- Education conferences
- CEILS Lending Library

Visit us Online: WWW.CEILS.UCLA.EDU

STEM Programs and Initiatives

Current programs include those that strengthen undergraduate science education at UCLA by broadening access to research opportunities as well as better preparing undergraduates, especially those from underrepresented groups, for college success. Programs also promote workforce training and preparing future faculty for successful careers in STEM.

Highlighted Programs

Learning Assistants (LA) Program

Evidence-based, multidisciplinary instructional strategy that brings undergraduates into the classroom to facilitate collaborative learning. The LA program benefits science majors and faculty teaching large introductory STEM courses. Supported with funding from OID, UCOP, and NSF.

Career Development for Life Science Majors (LS 110)

Program that bridges curricular and co-curricular experiences (via Partnership UCLA), which both involve UCLA alumni and faculty and together engage students in self-reflective explorations of diverse careers in STEM, providing alternatives to traditional medicine and research. Supported with funding from NSF.

Quantitative Biology Initiative (LS 20, 30, 40)

Curriculum project transforming first-year math and statistics courses for Life Science majors into learning experiences that incorporate biological examples, computational applications, and student-centered pedagogies. Supported with funding from OID and NSF.

LS Core Curriculum Transforming Teaching Initiative (LS 7ABC)

Curriculum project redesigning the entire introductory life science curriculum into 3-year series delivered in hybrid (‘flipped’) teaching format. Facilitated by innovative instructional videos, which allow time for instructors to engage students in active learning during class. Supported with funding from NSF and ILTI.

If you wish to receive our bi-monthly newsletter detailing events, resources, and other announcements relevant to science education and instructional development, please send a request to join the CEILS mailing list (contact: media@ceils.ucla.edu), and visit us online at www.ceils.ucla.edu