ExperienceBased
Learning
and Career
Education
at the
University of
Cincinnati

ANNUAL REPORT 2018—19



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REGARDING ALL DATA IN THIS REPORT UNLESS OTHERWISE INDICATED:

Students who participated in more than one experience-based learning course are being counted for each enrolled course.

Academic year runs summer semester through spring semester (ex. Academic year 2018 includes summer 2018, fall 2018 and spring 2019).

Home college is frozen at the start of the academic year.

Only degree-seeking undergraduate students were included (excludes dual enrollment and non-matriculated). Source: UC Institutional Research

"As we look to the future, we are defining Co-op 2.0 — our brand for the next generation of work-integrated learning. No matter what we call it, we recognize the essential and transformational value of work experiences to the education of students."

UC PRESIDENT NEVILLE PINTO,
 WACE WORLD CONFERENCE, AUGUST 2019



(2020 EDITION OF U.S. NEWS BEST COLLEGES)

Experience-Based Learning across UC

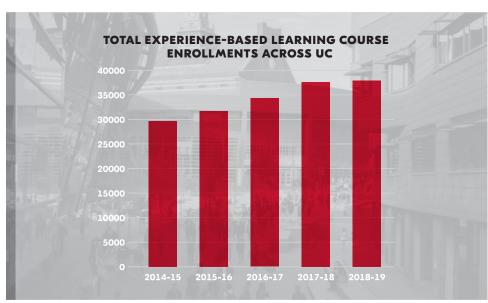
UC invented cooperative education in 1906. Since then, we've been leading the pack.

Experience-based learning isn't limited to just co-ops and internships—it takes place in many forms and across all colleges at the University of Cincinnati.



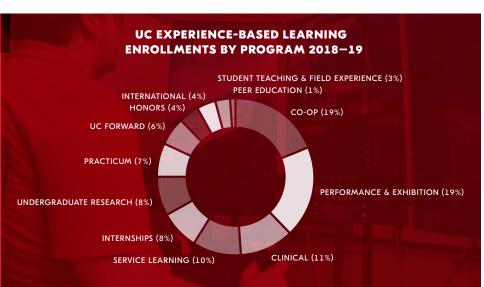
 37,935 Experience-based course enrollments (2018–19)

This is a 28% increase over five years



12 types of experiencebased learning across UC

- Co-op
- Performance & Exhibition
- Clinical
- Service Learning
- Internships
- Undergraduate Research
- Practicum
- UC Forward
- Honors
- International
- Student Teaching & Field Experience
- Peer Education



Co-op 2.0 is the expansion of co-op. Building from our signature programs in DAAP, Engineering and IT, and Business, we are creating flexible pathways to meaningful, career-oriented, compensated experiences for all UC students.

CO-OP 2.0, APPROVED BY UC FACULTY SENATE, 2019

Co-op Redefined

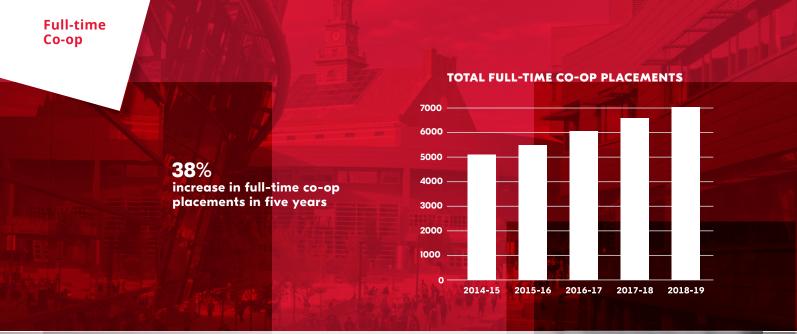


Full-time Co-op Record Placements and Earnings

In 2018—19, UC students participated in nearly **7,300** full-time co-op placements, earning over **\$75 million**.

*CO-OP WAGE DATA SOURCE: PROFESSIONAL ASSESSMENT & LEARNING (PAL)

COLLEGE	MAJOR	AVERAGE WAGE PER HOUR	AVERAGE EARNINGS PER 15-WEEK, FULL- TIME WORK TERM
College of Design, Architecture, Art and Planning	BACHELOR OF SCIENCE, ARCHITECTURE	\$16.83	\$10,098
	FASHION DESIGN	\$16.16	\$9,696
	FINE ARTS	\$12.40	\$7,440
	GRAPHIC COMMUNICATION DESIGN	\$16.57	\$9,942
	INDUSTRIAL DESIGN	\$16.94	\$10,164
	INTERIOR DESIGN	\$17.07	\$10,242
	MASTER OF DESIGN	\$20.96	\$12,576
	MASTER COMMUNITY PLANNING	\$14.69	\$8,814
	MASTER OF ARCHITECTURE	\$18.81	\$11,286
	URBAN PLANNING	\$13.41	\$8,046
College of Education, Criminal Justice, and Human Services	INFORMATION TECHNOLOGY	\$15.63	\$9,378
College of Engineering and Applied Science	AEROSPACE ENGINEERING	\$17.48	\$10,488
	ARCHITECTURAL ENGINEERING	\$16.48	\$9,888
	BIOMEDICAL ENGINEERING	\$17.46	\$10,476
	CHEMICAL ENGINEERING	\$19.70	\$11,820
	CIVIL ENGINEERING	\$16.30	\$9,780
	COMPUTER ENGINEERING	\$19.05	\$11,430
	COMPUTER SCIENCE	\$18.92	\$11,352
	CONSTRUCTION MANAGEMENT	\$16.63	\$9,978
	ELECTRICAL ENGINEERING	\$18.93	\$11,358
	ELECTRICAL ENGINEERING TECHNOLOGY	\$17.66	\$10,596
	ENVIRONMENTAL ENGINEERING	\$17.19	\$10,314
	MECHANICAL ENGINEERING	\$18.58	\$11,148
	MECHANICAL ENGINEERING TECHNOLOGY	\$17.43	\$10,458
College of Arts and Sciences	COMMUNICATION	\$13.62	\$8,172
Lindner College of Business** **Lindner Professional Experience Salaries include both full- and part-time co-op and internship information. This data provided by LCOB.	ACCOUNTING	\$18	\$10,800
	BUSINESS ANALYTICS	\$17	\$10,200
	ECONOMICS	\$16	\$9,600
	ENTREPRENEURSHIP	\$15	\$9,000
	FINANCE	\$17	\$10,200
	INDUSTRIAL MANAGEMENT	\$17	\$10,200
	INFORMATION SYSTEMS	\$17	\$10,200
	INSURANCE AND RISK MANAGEMENT	\$17	\$10,200
	INTERNATIONAL BUSINESS	\$15	\$9,000
	MARKETING	\$15	\$9,000
	OPERATIONS MANAGEMENT	\$17	\$10,200
	REAL ESTATE	\$15	\$9,000



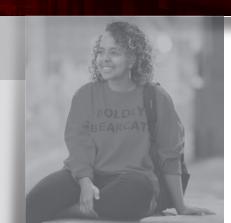
In 2018—19, UC co-op students worked in 30 countries and across 43 states.

TOP STATES

Ohio Kentucky New York California Indiana

TOP COUNTRIES

United States Germany China United Kingdom Japan



In addition to the University of Cincinnati being a top employer for co-op students, we work with many companies to offer a variety of work experiences.

TOP CO-OP EMPLOYERS:

ARTS AND SCIENCES

828 Logistics, LLC. 84.51° BHDP Architecture General Electric Luxottica Retail

LINDNER COLLEGE OF BUSINESS

EY Accenture American Financial Group Total Quality Logistics Fifth Third Bank

DESIGN, ARCHITECTURE, ART, AND PLANNING

L Brands
BHDP Architecture
MKG
Crown Equipment Company
Fossil Group Inc.

COLLEGE OF ENGINEERING AND APPLIED SCIENCE

Siemens PLM Software General Electric Cincinnati Insurance Companies Kinetic Vision Honeywell Intelligrated

OVERALL

Siemens PLM Software
General Electric
Kinetic Vision
Cincinnati Insurance Companies
Kroger / 84.51°
Honeywell Integrated
ThyssenKrupp Bilstein of America
Duke Energy
Marathon Petroleum Company LP
Danis Building Construction Company



MANSI PATEL COMPUTER SCIENCE

Mansi co-oped at GE Aviation in Cincinnati and worked for GE Global in Munich as part of the International Co-op Program. Mansi's leadership activities include empowering other students, particularly women, to succeed in technology fields. Mansi began her career as a Program Manager in Cloud Computing and Artificial Intelligence at Microsoft after graduating in spring 2019.

Profs. Samantha Groh and Gayle Elliot with Cooperative Education Award Winner, Mansi Patel



AUSTIN WINTERS

COMMUNICATION

Austin, a communication major, graduated spring 2019 with a minor in Marketing and a certificate in Public Relations. Austin completed two coop rotations with InteractOne in Cincinnati and Narvar in San Francisco. He served as Head of Marketing for UC's Programs and Activities Council.

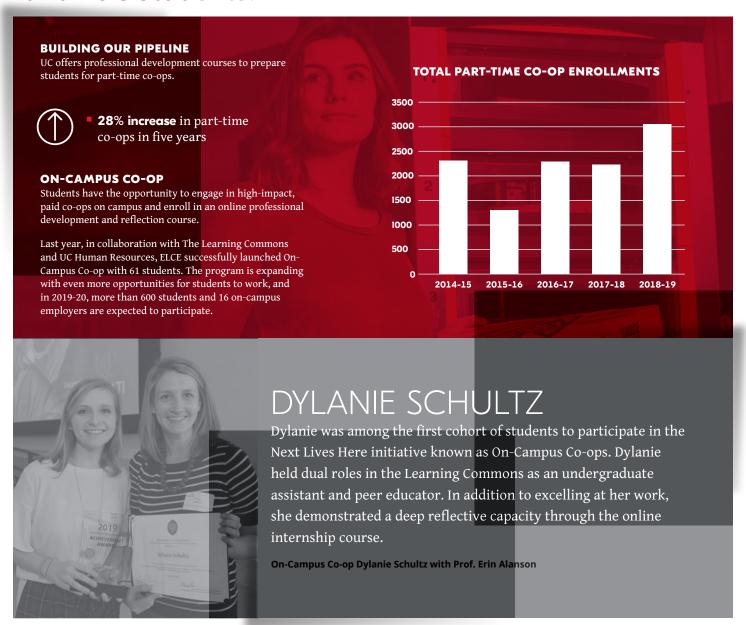
A&S Cooperative Education Award Winner, Austin Winters, with Director of Multidisciplinary Initiatives, Annie Straka

KEELEY WILLIAMS

ARCHITECTURAL ENGINEERING

Keeley completed two co-ops with KLH Engineers, one with DLR Group and two with Gilbane Building Company, where she returned post-graduation. Scott Bindel, one of Keeley's Gilbane supervisors, commented, "Keeley learns quickly and applies everything going forward. There is no need for repeat instruction. Positive attitude. Excellent time and task management. She is excellent."

Prof. Jill Flood with Co-operative Education Award Winner, Keeley Williams, and her supervisor Scott Bindel, Gilbane Construction Part-time co-ops or internships are a flexible pathway to meaningful, career-oriented, compensated experiences for all UC students.



Service learning opportunities at UC give students the chance to learn outside the classroom, making contributions that have real impact in the community, for course credit. The service learning component of education at UC supports the university's **URBAN FUTURES INITIATIVE**, a part of its new strategic direction **NEXT LIVES HERE**.

Last year, 3,832
students participated in
240 Service Learning
courses across nine
colleges.

Service Learning participation by college

- Arts and Sciences (A&S) 37%
- Allied Health Sciences 28%
- Lindner College of Business (LCOB) **19**%
- UC Blue Ash (UCBA) 6%
- College of Medicine **4**%
- Education, Criminal Justice, Human Services, and Information Technology (CECH) 2%
- College of Engineering and Applied Science (CEAS) 2%
- Design, Architecture, Art, and Planning (DAAP) 1%
- UC Clermont 1%
- Nursing 1%
- College-Conservatory of Music (CCM) 1%



DR. MICHELE KEGLEY

2018-19 JACK TWYMAN AWARD FOR SERVICE LEARNING RECIPIENT

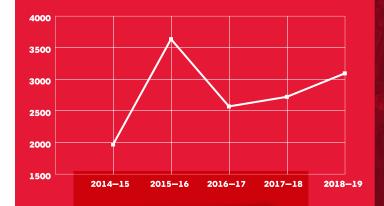
Dr. Michele Kegley, Associate Professor of Business and Economics, UC Blue Ash, has been a champion of Service Learning for many years. Her work and that of her students has supported the Alois Alzheimer Foundation, Hope in Action's Giving Garden, Art for All People, Little Brothers Friends of the Elderly, Circle Tail, The Cincinnati Free Store, Matthew 25 Ministries, Cincinnati Nature Center, St. Francis Seraph Food Pantry, Citylink and Operation Give Back.

Dr. Michele Kegley, award recipient, and Michael Sharp, professor and service learning director

Undergraduate Research

The Division of Experience-Based Learning and Career Education engaged more than 2,100 students through its "Ready for Research" information sessions and the second annual Scholarly Showcase in 2018–19. Through this work, we are increasing student awareness about research, how to become involved, and potential career pathways.

Enrollments in course-based
Undergraduate Research programs
have **increased 57%** over the
past five years



Last year, **3,094 students** participated in **369 Undergraduate Research** courses across nine colleges.

UNDERGRADUATE RESEARCH COURSE ENROLLMENTS BY COLLEGE:

Arts and Sciences (A&S) 44%
Allied Health Sciences 20%
Education, Criminal Justice, Human Services, and
Information Technology (CECH) 10%
Lindner College of Business (LCOB) 9%
College of Engineering and Applied Science (CEAS) 8%
UC Blue Ash (UCBA) 3%
College-Conservatory of Music (CCM) 2%
Design, Architecture, Art, and Planning (DAAP) 1%
College of Medicine 1%
UC Clermont 0.26%



SAIRA MATTHEWS

Saira is a McNair Scholar engaged in clinical research with her mentor Dr. Oluwole Awosika. She was also a Summer Undergraduate Research Fellow at Cincinnati Children's Hospital. As part of the Research and Creative Opportunities Network, she helps UC undergraduate students access and use research resources that are available to them.

PRATEEK SRIVASTAVA

Since his freshman year, Prateek has published and presented his research on South Asian politics, religion, migration, and feminist politics. Prateek discussed his recent book publication, *Identity and Diaspora*, at UC's 2019 Undergraduate Scholarly Showcase and at the Ireland India Institute in Dublin, Ireland, spring 2019.

Prateek Srivastava and Saira Matthews with Prof. Megan Lamkin, Director, Undergraduate Research at the 2019 ELCE Achievement Awards.

UC Forward is a one-of-a-kind learning opportunity—pairing students and faculty of diverse majors in trans-disciplinary teams to collaborate with outside experts in solving real-world problems and developing tomorrow's workforce in unique and relevant ways.

UC Forward participation by college:

- *Arts and Sciences (A&S) 20%
- *College of Engineering and Applied Science (CEAS) **17**%
- Design, Architecture, Art, and Planning (DAAP) 17%
- *Lindner College of Business (LCOB) 16%
- Education, Criminal Justice, Human Services, and Information Technology (CECH) 10%
- *Allied Health Sciences 8%
- *College-Conservatory of Music (CCM) 5%
- *UC Clermont 4%
- *College of Medicine 2%
- "UC Blue Ash (UCBA) 1%
- *College of Nursing 0.39%



NEIL ARMSTRONG UC FORWARD INNOVATION AWARD

Presented to a team of outstanding students whose work and efforts exemplify the characteristics and values of the Just Community Principles, the Bearcat Bond, and the UC Forward ideal of innovation through interdisciplinary collaboration.

Justin Meyer
INDUSTRIAL DESIGN

Bradley William Davidson INFORMATION TECHNOLOGY

Jamie A. Rinderle
MECHANICAL ENGINEERING

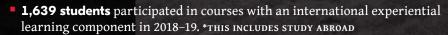
Hannah M. Salmon
MECHANICAL ENGINEERING

This interdisciplinary team designed and built an animal enrichment prototype for the Rhinoceros Hornbill exhibit at the Cincinnati Zoo. Created in a UC Forward Inquiry to Innovation class entitled "The Cincinnati Zoo Challenge" and conducted in close collaboration with Zoo staff, their "Puzzle Feeder" supports physical and cognitive development in the birds.

Neil Armstrong UC Forward Innovation Award winners with Prof. Frank Russell, Director, UC Forward



International experience-based learning allows students to apply classroom knowledge in a real-world setting while gaining a better understanding of a given field in a global context.



- 171 students participated in Experience-Based Learning and Career Education international work programs
 - International Co-op Program in Germany and Japan: 32 students
 - International Experience Program: 58 students
 - Worldwide Co-op: **41 students**

Faculty-led study tours to Japan, Ireland, Italy and Spain: 40 students



ANDREA TICKNOR

INTERNATIONAL EXPERIENCE PROGRAM LONDON, ENGLAND

Industrial Design major Andrea Ticknor participated in The London Experience in fall 2019. With a goal to work on set designs for films, she accepted a position with Top Left Design. Andrea demonstrated her design, technical, and communication skills and leveraged the opportunity into a co-op position with a film studio in Bulgaria.

Andrea Ticknor, International award recipient, with Prof. Willie Clark, Director, International Programs

Career Education Services

In addition to curricular-based learning, the Division of Experience-Based Learning & Career Education provides extensive career services to all UC undergraduate students. Students have access to online tools and in-person coaching. Our Career Coaches offer help with personality and career assessments, interview preparation, resume feedback, career selection, networking, salary negotiation, continuing education and job opportunities.





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