Experience-Based 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

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.

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

This is a 28% increase over five years

12 types of experience-based learning across UC
- Co-op
- Performance & Exhibition
- Clinical
- Service Learning
- Internships
- Undergraduate Research
- Practicum
- UC Forward
- Honors
- International
- Student Teaching & Field Experience
- Peer Education

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**TOTAL EXPERIENCE-BASED LEARNING COURSE ENROLLMENTS ACROSS UC**

<table>
<thead>
<tr>
<th>Year</th>
<th>Enrollments</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014-15</td>
<td>30000</td>
</tr>
<tr>
<td>2015-16</td>
<td>35000</td>
</tr>
<tr>
<td>2016-17</td>
<td>37000</td>
</tr>
<tr>
<td>2017-18</td>
<td>38000</td>
</tr>
<tr>
<td>2018-19</td>
<td>39000</td>
</tr>
</tbody>
</table>

**UC EXPERIENCE-BASED LEARNING ENROLLMENTS BY PROGRAM 2018–19**

- **Co-op (19%)**
- **Performance & Exhibition (19%)**
- **Clinical (11%)**
- **Service Learning (10%)**
- **Internships (8%)**
- **Undergraduate Research (8%)**
- **Practicum (7%)**
- **UC Forward (6%)**
- **Honors (4%)**
- **International (4%)**
- **Peer Education (1%)**
- **Student Teaching & Field Experience (3%)**

This is a 28% increase over five years.
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.
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)*

<table>
<thead>
<tr>
<th>COLLEGE, MAJOR</th>
<th>AVERAGE WAGE PER HOUR</th>
<th>AVERAGE EARNINGS PER 15-WEEK, FULL-TIME WORK TERM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>College of Design, Architecture, Art and Planning</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Science, Architecture</td>
<td>$16.83</td>
<td>$10,098</td>
</tr>
<tr>
<td>Fashion Design</td>
<td>$16.16</td>
<td>$9,696</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>$12.40</td>
<td>$7,440</td>
</tr>
<tr>
<td>Graphic Communication Design</td>
<td>$16.57</td>
<td>$9,942</td>
</tr>
<tr>
<td>Industrial Design</td>
<td>$16.94</td>
<td>$10,164</td>
</tr>
<tr>
<td>Interior Design</td>
<td>$17.07</td>
<td>$10,242</td>
</tr>
<tr>
<td>Master of Design</td>
<td>$20.96</td>
<td>$12,576</td>
</tr>
<tr>
<td>Master Community Planning</td>
<td>$14.69</td>
<td>$8,814</td>
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<tr>
<td>Master of Architecture</td>
<td>$18.81</td>
<td>$11,286</td>
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<tr>
<td>Urban Planning</td>
<td>$13.41</td>
<td>$8,046</td>
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<td><strong>College of Education, Criminal Justice, and Human Services</strong></td>
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<td></td>
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<tr>
<td>Information Technology</td>
<td>$15.63</td>
<td>$9,378</td>
</tr>
<tr>
<td><strong>College of Engineering and Applied Science</strong></td>
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<td></td>
</tr>
<tr>
<td>Aerospace Engineering</td>
<td>$17.48</td>
<td>$10,488</td>
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<tr>
<td>Architectural Engineering</td>
<td>$16.48</td>
<td>$9,888</td>
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<tr>
<td>Biomedical Engineering</td>
<td>$17.46</td>
<td>$10,476</td>
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<tr>
<td>Chemical Engineering</td>
<td>$19.70</td>
<td>$11,820</td>
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<tr>
<td>Civil Engineering</td>
<td>$16.30</td>
<td>$9,780</td>
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<tr>
<td>Computer Engineering</td>
<td>$19.05</td>
<td>$11,430</td>
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<td>Computer Science</td>
<td>$18.92</td>
<td>$11,352</td>
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<tr>
<td>Construction Management</td>
<td>$16.63</td>
<td>$9,978</td>
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<tr>
<td>Electrical Engineering</td>
<td>$18.93</td>
<td>$11,358</td>
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<td>Electrical Engineering Technology</td>
<td>$17.66</td>
<td>$10,596</td>
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<tr>
<td>Environmental Engineering</td>
<td>$17.19</td>
<td>$10,314</td>
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<td>Mechanical Engineering</td>
<td>$18.58</td>
<td>$11,148</td>
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<tr>
<td>Mechanical Engineering Technology</td>
<td>$17.43</td>
<td>$10,458</td>
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<tr>
<td><strong>College of Arts and Sciences</strong></td>
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<tr>
<td>Communication</td>
<td>$13.62</td>
<td>$8,172</td>
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<tr>
<td><strong>Lindner College of Business</strong></td>
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<tr>
<td>Accounting</td>
<td>$18</td>
<td>$10,800</td>
</tr>
<tr>
<td>Business Analytics</td>
<td>$17</td>
<td>$10,200</td>
</tr>
<tr>
<td>Economics</td>
<td>$16</td>
<td>$9,600</td>
</tr>
<tr>
<td>Entrepreneurship</td>
<td>$15</td>
<td>$9,000</td>
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<tr>
<td>Finance</td>
<td>$17</td>
<td>$10,200</td>
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<tr>
<td>Industrial Management</td>
<td>$17</td>
<td>$10,200</td>
</tr>
<tr>
<td>Information Systems</td>
<td>$17</td>
<td>$10,200</td>
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<tr>
<td>Insurance and Risk Management</td>
<td>$17</td>
<td>$10,200</td>
</tr>
<tr>
<td>International Business</td>
<td>$15</td>
<td>$9,000</td>
</tr>
<tr>
<td>Marketing</td>
<td>$15</td>
<td>$9,000</td>
</tr>
<tr>
<td>Operations Management</td>
<td>$17</td>
<td>$10,200</td>
</tr>
<tr>
<td>Real Estate</td>
<td>$15</td>
<td>$9,000</td>
</tr>
</tbody>
</table>

**Lindner Professional Experience Salaries include both full- and part-time co-op and internship information. This data provided by LCOB.**
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

**DESIGN, ARCHITECTURE, ART, AND PLANNING**
- L Brands
- BHDP Architecture
- MKG
- Crown Equipment Company
- Fossil Group Inc.

**LINDNER COLLEGE OF BUSINESS**
- EY
- Accenture
- American Financial Group
- Total Quality Logistics
- Fifth Third Bank

**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.

Prof. 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 co-op 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.

**BUILDING OUR PIPELINE**
UC offers professional development courses to prepare students for part-time co-ops.

> **28% increase** in part-time co-ops in five years

**ON-CAMPUS CO-OP**
Students have the opportunity to engage in high-impact, paid co-ops on campus and enroll in an online professional development and reflection course.

Last year, in collaboration with The Learning Commons and UC Human Resources, ELCE successfully launched On-Campus Co-op with 61 students. The program is expanding with even more opportunities for students to work, and in 2019-20, more than 600 students and 16 on-campus employers are expected to participate.

**DYLANIE SCHULTZ**
Dylanie was among the first cohort of students to participate in the Next Lives Here initiative known as On-Campus Co-ops. Dylanie held dual roles in the Learning Commons as an undergraduate assistant and peer educator. In addition to excelling at her work, she demonstrated a deep reflective capacity through the online internship course.

On-Campus Co-op Dylanie Schultz with Prof. Erin Alanson
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%**

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**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*
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.

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

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

**UNDERGRADUATE RESEARCH COURSE ENROLLMENTS BY COLLEGE:**

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

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**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.
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%**
- UC Blue Ash (UCBA) **1%**
- College of Nursing **0.39%**

2,037 students participated in 102 UC Forward courses across eleven colleges.

**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.

- **1,639 students** participated in courses with an international experiential learning component in 2018–19. *THIS INCLUDES STUDY ABROAD*
- **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
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.

27,000+ Jobs posted

85,000+ Job applications

11,000+ Pre-screened employers

3,500+ On-campus interviews

1600 individual career coaching sessions
- 20+ career readiness topics
- All academic years
- Students from 10 UC colleges
- Individual assessments: 80+ hours
  - 795+ résumés
  - 565+ LinkedIn profile
  - 150+ cover letters

Peer coaches help students across the University along their career journeys in more than 1,000 walk-in appointments per year. Pictured: Peer coaches Michael Santangelo and Arin Gentry with advisor Heather Nester

4,600+ Student enrollments in 130+ ELCE Professional Development courses in 2018–19