UC CEAS Graduate Programs

Graduate Degree Programs

- Aerospace Engineering
- Additive Manufacturing
- Artificial Intelligence
- Biomedical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Computer Science

- Electrical Engineering
- Environmental Engineering
- Environmental Science
- Materials Science & Engineering
- Mechanical Engineering
- Robotics & Intelligent Autonomous Systems

Dual MSc/MEng Program

Master of Science from Home University

Master of Engineering from UC

UC Master of Engineering (MEng) Program

- Industry focused graduate degree that provides:
    - ✓ Advanced technical skills
    - ✓ Professional skills (leadership and teamwork)
- Coursework + capstone project/internship
- No thesis required for UC MEng degree
- Completed in less than 1 year at UC

Benefits of the Dual Degree Program

- Graduate degrees from two universities
  - ✓ Top-ranked Asian University
  - ✓ Top-ranked U.S. University

- Diverse coursework and faculty
  - ✓ Broader selection of topics
  - ✓ Experts from two continents (USA + Asia)
  - ✓ Possibility of degree combinations (ex. Mechanical Engineering + Civil Engineering)

Dual Degree Program at a Glance (Spring Enrollment at UC)

Semesters	Dual Degree, 2-Semester completion option	Dual Degree, 3-Semester completion option
Fall Semester	Academic Semester at your University, transfer 15 credits to UC	Academic Semester at your University, transfer 15 credits to UC
Spring Semester (approx. Jan – Apr)	Academic Semester at UC (12 credits plus 3 credits Capstone project on campus)	Academic Semester at UC, 12 credits
Summer Semester (approx. May – Aug)		Complete Capstone Project/Internship at UC, 3 credits (can be internship)

MSc (home University) and MEng (UC) awarded after completion of coursework and capstone

* All dates are approximate and will adjust once new academic calendar is confirmed

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Dual Degree Program at a Glance (Fall Enrollment at UC)

Semesters	Dual Degree, 2-Semester	Dual Degree, 3-Semester
Spring Semester (Summer Semester OFF)	Academic Semester at your University, transfer 15 credits to UC	Academic Semester at your university, transfer 15 credits to UC
Fall Semester (approx. Aug – Dec)	Academic Semester at UC (12 credits plus 3 credits Capstone project on campus)	Academic Semester at UC, 12 credits
Spring Semester (approx. Jan – Apr)		Complete Capstone Project/Internship at UC, 3 credits (can be internship)

MSc (home University) and MEng (UC) awarded after completion of coursework and capstone

* All dates are approximate and will adjust once new academic calendar is confirmed

Admission Requirements

- Bachelor's degree in corresponding program with 3.0 GPA or equivalent

- TOEFL of 85 or better/IELTS 6.5/Pearson Test of English of 47

- GRE not required if recommended by your school for admissions

- Approved F-1 visa (form I-20) for two semesters

Spring Semester Admission Application Timeline

Briefing with students on the process	September
Application Deadline (at home University)	End of September
List of recommended candidates to UC *	End of September
Offer letters from UC to students	Early-mid October

* Your approved students apply online at UC CEAS. Your University forwards to UC CEAS a list of applicants with their names, date of birth, and email contact information.

Fall Semester Admission Application Timeline

Briefing with students on the process	January-Early February
Application Deadline	End of February
List of recommended candidates to UC *	End of February
Offer letters from UC to students	Mid-March

* Your approved students apply online at UC CEAS. Your University forwards to UC CEAS a list of applicants with their names, DOB and email contact information.

Application Process

Send a list of eligible students and transcripts to CEAS for review of credentials

➢ **University Online Application** – https://grad.catalyst.uc.edu/apply/

→ Students create a new account by using the link above and submit transcripts, TOEFL scores, statement of purpose and provide names and contact information of two references.

→ **If intending to study in Spring students must apply for Fall, upon completion of application send an email to: engrgrad@uc.edu that you have applied to the Dual Degree program and we will change your admission date to Spring.**

→ There is an USD$80.00 application fee. Fees are paid by credit card.

Application Process

Step 2:

➢ **Review Process**

→ Upon completion of the above application process your file will be reviewed and you can check your status online at: https://grad.uc.edu/admissions.html

Step 3:

➢ **Application Approval**

→ Approved applications will be confirmed and an email will be sent from our International Office (international.students@uc.edu) on what is required to prepare your I-20.

Application Process

Step 4:

➢ **International Office and I-20 Issuance**

→Additional information about I-20's can be found on our International Students website http://www.uc.edu/international/services/students/prepare/i-20_faq.html

→We recommend that you have your I-20 / DS-2019 mailed by express mail. Regular mail overseas may take as long as 4- 6 weeks

Program Costs

- 1st semester at UC:
  - ✓ $14,914 tuition and fees ($5,320 guaranteed scholarship available)
  - ✓ Approximately $5,000 - $6,000 room and board

- 2nd semester at UC:
  - ✓ Some students elect to stay & complete an internship/capstone project in the 2nd semester. Costs same as the 1st semester, scholarship available
  - ✓ $14,914 tuition and fees (~9k+ scholarship available)*

*2019-2020 tuition and fees, not including cost of living
Subject to annual price adjustment*

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Capstone Project (3-6 credit)

- **<u>Pathway A</u>**: Completed as part of 15 credits at UC in the 1st semester

- **<u>Pathway B</u>**: Completed as an internship (via Curriculum Practical Training, CPT) during the 2nd semester for select project
  - ✓ Must find internship by the end of the 1st semester to qualify for CPT

- **<u>Pathway C</u>**: Completed at your University
  - ✓ An outline/abstract required
  - ✓ All require written report submitted to UC upon completion

Pathway B: Internship (CPT)

- Curriculum Practical Training (CPT)

- Working for company or research lab (paid)

- Students must register for a minimum of 10 credit hours during the second semester at UC to satisfy F-1 visa requirements.

- Students responsible for finding internship
  - ✓ Help available through UC Career Center / job fairs
  - ✓ Many students use connections through LinkedIn
  - ✓ Search online job postings

CPT / OPT

- Interested & qualified students can apply for CPT (curriculum practical training) for Capstone project during 2nd semester

- Interested & qualified students on valid F-1 visa can apply for OPT (optional practical training) upon completion of 2 full-time semesters at UC

- Apply for 12 months initial OPT within 90 days before and 60 days after degree completion

UC Graduation

- Students completing Capstone in Fall semester apply for Fall Graduation:

  ✓ Deadline to apply for Fall Graduation is September. Actual graduation date is in **December**.

- Students completing Capstone in Spring semester apply for Spring Graduation:

  ✓ Deadline to apply for Spring Graduation is January. Actual graduation date is in **May**.

UC Graduation Cont.

- Students completing Capstone in Summer apply for Summer graduation:
  - ✓ Deadline to apply for Summer graduation is May. Actual graduation date is **August**.

- Online graduation application:
  - ✓ Graduation website http://grad.uc.edu/student-life/graduation.html
  - ✓ Graduation application fee is $50.00 (non-refundable)

UC Housing

- On campus options: http://www.uc.edu/uchousing/residence_halls.html

- Off campus options: http://www.uc.edu/uchousing/graduate_housing.html

F-1 and I-20

- The I-20 is the "Certificate of Eligibility," meaning a student is "eligible" to apply for an F-1 student visa

- After receiving an I-20 from UC, students make an appointment to apply for the F-1 visa at the local U.S. embassy or consulate.

- Students must present both the F-1 visa and the I-20 to a U.S. Immigration inspector upon arrival at the port-of-entry.

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3+1+1(2) - a gateway to UC graduate programs

Bachelor of Science from your University
Master of Engineering/Science from UC

2019

3+1+1(2) (Your BS + UC Meng or MS)

- **Students in good academic standing at your University can take senior BS qualifying courses in UC CEAS as study abroad students to satisfy your BS requirement. Course credits are transferred back to get your school BS degree.**

- **3 years of undergrad study at your University.**

- **1 year of senior undergrad study at UC – credits are transferred back, students earn BS from their school. No BS degree from UC.**

- **1 more year of MEng study at UC, students earn MEng degree from UC. MS possible too, takes students 1.5-2.0 years more to finish.**

3+1+1(2) Program requirements

- **Program requirements to enter senior BS year at UC**
  - ✓ **3.0 or higher GPA**
  - ✓ **TOEFL of 80 or better/IELTS 6.5/Pearson Test of English of 47**
  - ✓ **No course deficiencies**
  - ✓ **Program of study approved prior to coming to UC**
- **No GRE required if criteria met**
- **Cost: 1 year at UC to complete BS degree: $15,306 per semester***
- **Cost: Master of Engineering Degree:$14,914 (-$5,320 MEng scholarship) per semester***
- **MEng Admission guaranteed for 3+1+1 students with 3.0 or higher GPA (competitive otherwise)**

UC Master of Engineering (MEng) Program

- Industry focused graduate degree that provides:
  - ✓ Advanced technical skills
  - ✓ Professional skills (leadership and teamwork)
- Coursework + capstone project/internship
- No thesis required for UC MEng degree
- Completed in less than 1 year (2 semesters) at UC (30 credits)

UC MEng Program

- 1st year
  - ✓ Work on coursework
  - ✓ Decide whether you intend to work on a project or not – find a project advisor if yes
- 2nd year
  - ✓ Finish coursework in the Fall
  - ✓ Finish project and present

or
  - ✓ Undergo final examination

Types of Research Degrees

- **Masters of Science (MS)**
  - ✓ Research based
  - ✓ Thesis required
  - ✓ Completion in 3-4 semesters

- **PhD (direct route or post-MS)**
  - ✓ Research based
  - ✓ Dissertation required
  - ✓ Completion 6–10 semesters

Research Pathways

- **Environment**
  - ✓ Water/Air Quality, Fuel Efficiency, Transportation, Sustainable Engineering and Energy

- **Information Science**
  - ✓ Modeling and Simulation, Bioinformatics, Cybersecurity, Data Mining

- **Manufacturing**
  - ✓ Advanced Manufacturing, Materials, CAE, Robotics, Intelligent Systems

- **Sensing**
  - ✓ Nanotechnology, Microfluidics, Structural Integrity and Dynamics, Smart Structures and Systems

- **Health**

✓ Tissue Engineering, Chemical Separations, MEMS diagnostics, Medical Devices

UC Master of Science Program

- 1st year
  - ✓ Finish most required coursework (20 credit hours of "real" courses)
  - ✓ Formulate thesis topic & complete preliminary studies/literature review/etc.
  - ✓ Select thesis committee and defend proposal
- 2nd year
  - ✓ Finish coursework in the Fall
  - ✓ Work in earnest on your research
  - ✓ Defend your thesis

UC PhD Degree Program

- 1st year

  ✓ Finish coursework (12 credit hours past MS)

  ✓ Formulate dissertation topic & complete preliminary studies/literature review/etc.

- 2nd year and following

  ✓ Take qualifying exam in the Fall Semester

  ✓ Form committee and defend proposal

  ✓ Work in earnest on your dissertation

Graduate Programs Reasonable Progress

- **MEng:**

Semi-annual Performance Review, 15 months

- **MS:**

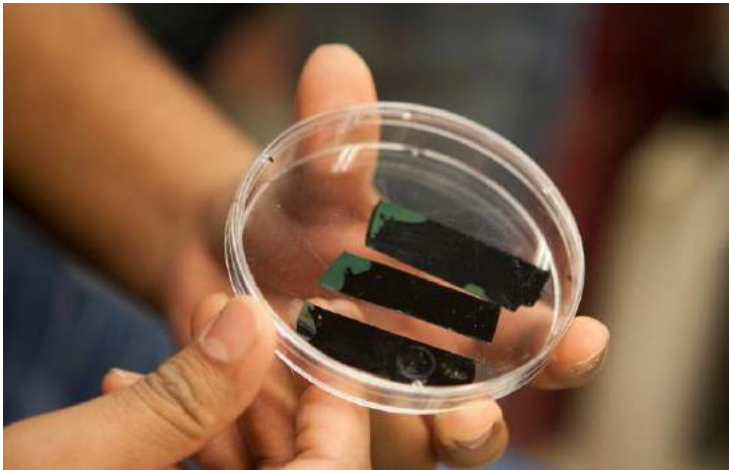Annual Performance Review, 24 months

- **PhD Degree:**

Annual Performance Review, 48 months

Research Infrastructure

CEAS has many outstanding research centers, institutes and labs. For a complete listing visit:

http://www.ceas.uc.edu/research/research_labs_andcenters.html

Funding

✓ All applicants for full-time graduate study are considered for financial aid, no separate form is required.

✓ For priority consideration applications must be complete by January 15 for the first round review and decisions for fall semester admission.

✓ Applications will still be accepted through April 1

▪ **Graduate Assistantships:**

✓ Competitive research and teaching assistantships are available with a minimum stipend of $23,000.

✓ CEAS offers tuition and fee waivers of $20,800 to a maximum full waiver per year.

▪ **Tuition & Fees*:**

✓ Full-Time: $14,914 per academic semester

✓ Estimated Living Expenses: $15,255 per year

*2019-2020 rates, subject to annual adjustment

General Graduate Admission Requirements

- The following minimum test scores are required (if no Institutional Agreement):

Exam	Scores
TOEFL	92

GRE :	
➢ Analytical	3.5+
➢ Quantitative	155+
➢ Verbal	155+

Scores should be sent to UC (Code #1833).

Apply Online

www.ceas.uc.edu/ucgradapply

- An application is a 3-step process:
- ✓ Step 1 University Online Application
- ✓ Step 2 CEAS Online Application
- ✓ Step 3 Transcript/letter of recommendation and standardized scores
- All information should be submitted electronically.
- Frequently Asked Questions (FAQ)

http://ceas.uc.edu/Graduate_Studies/AdmissionsFAQ.html

For more information email us at : engrgrad@uc.edu

University of Cincinnati

Graduate Studies Office

665 Baldwin Hall

PO Box 210077

Cincinnati, OH 45221-0077

513.556.3647

Contact us with questions!