



UC Berkeley College of Chemistry

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Overview

- Undergraduate 3+1 Visiting Scholars Program
- Academic doctoral programs
- Professional Master's degree in Product Development

3+1 Visiting Scholars

- 3rd or 4th year undergraduate students
- Complete a year at UC Berkeley
- ShanghaiTech degree
- Two semesters, 27 units total
- Accept up to 30 students per year



Participating Units

- College of Chemistry
- College of Engineering
- Physics in the College of Letters and Science

College of Chemistry

- Ranked #1 Chemistry and #2 Chemical Engineering by US News and World Report
- Only college of chemistry in US
- Discovered 16 elements
- 14 Nobel laureates





College of Engineering

- Ranked #1 by US News & World Report
 - Civil Engineering
 - Computer Science
 - Electrical Engineering
 - Environmental Engineering
- 7 departments
- 228 ladder rank faculty
- 1,845 graduate students



Department of Physics

- Ranked #3 by US News & World Report
- 60 ladder rank faculty
- 282 doctoral students
- 9 Nobel laureates

Cohort Selection

- Initial selection by ShanghaiTech
- Minimum 3.5 GPA and 90 TOEFL
- 500 word Statement of Purpose
- Transcript
- Interviewed for English proficiency
- Reference letter(s) optional

Timeline

- February: Interviews and selection process
- March: Available courses sent
- April: Students indicate course preference
- May: Students decide about attending program
- June: Enroll UNEX (Tuition is \$39,800)
- August: Classes start
- September: Class add/drop deadline



Coursework Examples

- Chem 178 Polymer science and technology
- Chem 114 Advanced synthetic organic chemistry
- Chem 105 Instrumental methods in analytical chemistry
- Chem 108 Inorganic synthesis and reactions

- ChemE 182 Nanoscience and engineering biotechnology
- ChemE 171 Transport Phenomena
- ChemE 160 Chemical Process Design

Student Life

- Students arrange own housing
 - Craigslist
 - International House Dormitory
 - Informal Networks
- Peer Mentor
 - Airport transfer and getting settled
 - Class registration
 - Social activities
 - Study groups



AY 2019 Students

Yifeng Tang, Chenhao Wang (Tianjin Univ), Nicolas Lai,
Zhuofan Shen, Steffi Kwok



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Department of Chemistry

- Ranked #1 by Academic Ranking of World Universities and US News & World Report
- 56 ladder rank faculty
- 355 doctoral students
- 796 applicants, 140 admitted (17% admittance rate)
- 32% admitted are non-US students



Chemistry PhD Program

- Select lab by end of first semester
- Course requirements during first two years
- Attendance at weekly research seminars
- Present research seminar during 2nd year
- Fulfill qualifying exam in 2nd year
- Teach 3 semesters
- Average completion time is 5 years



Department of Chemical and Biomolecular Engineering

- Ranked #2 by US News & World Report
- 20 ladder rank faculty
- 64 doctoral students
- 38 master's students
- 406 applicants, 70 admitted (17% admittance rate)
- 11% admitted are non-US students

CBE PhD Program

- Select lab by end of first semester
- Complete 18 units of coursework
- Satisfy oral preliminary examination at start of 2nd semester
- Fulfill oral qualifying examination during 5th semester
- Teach two semesters
- Average completion time is 5.5 years

Product Development Program (PDP)

- Professional master's degree
- Transform technical innovations into commercially successful products
- 9-month (two semester)
 - 24 units
 - Practicum
 - Oral and written report

PDP Specialization

- Biotechnology
- Microelectronics/Nanoscience
- Consumer Products
- New Ventures

Application Requirements

Program	Application Due Date	Avg GPA	Avg TOEFL	Avg GRE	Ref Letters	Research Summary
Chemistry (PhD)	Dec 3, 2018	3.9 on 4.0 scale	106 on IBT	Verbal: 163 Quantitative: 167 Analytical: 4.8	3	□
CBE (PhD)	Dec 17, 2018				3	□
PDP (MS)	Jan 7, 2019	3.63 on 4.0 scale	105 on IBT	Verbal: 150 Quantitative: 167 Analytical: 3.9	3	Statement of Interest

Financial Aid

- PhD students are paid
- Master's students pay tuition
 - \$49,577/year
 - Need-based loans and work-study support
 - 50% of students on loans

Resources

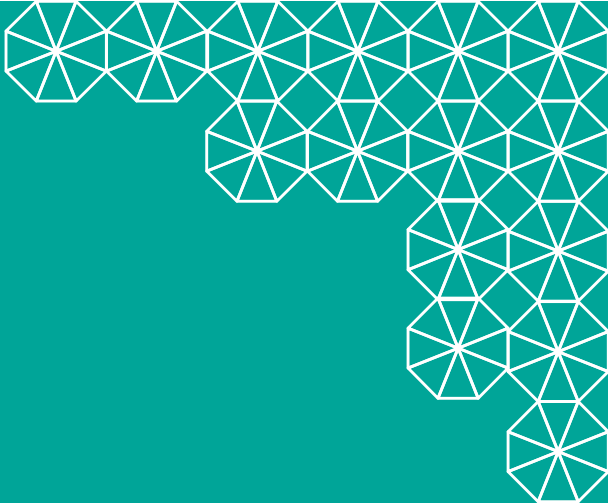
- UC Berkeley Admissions: <http://grad.berkeley.edu/programs/list/>
- Department of Chemistry: <https://chemistry.berkeley.edu/grad/chem>
- Department of Chemical and Biomolecular Engineering: <https://chemistry.berkeley.edu/grad/cbe>
- College of Engineering: <http://engineering.berkeley.edu>
- Department of Physics: <http://physics.berkeley.edu>



Questions?



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谢谢您!