

## TPCB PROGRAM OF STUDY

*Dates apply to entering Class of 2022*

<http://chembio.triiprograms.org/about-tpcb/program-of-study/>  
<http://chembio.triiprograms.org/about-tpcb/timeline-and-requirements/>

### Admissions Timeline

Feb–Apr 2022	TPCB admission offers sent to students; Additional discussions arranged with TPCB faculty based on interests
April 15, 2022	Deadline for students to accept or decline TPCB admission offers

### Enrollment Timeline

May 1, 2022	Deadline for foreign students to submit completed I-20 visa applications to TPCB (processed by Weill Cornell Graduate School); First-Year Advisors contact students to discuss rotation selections
June 1, 2022	Deadline for students to arrange Laboratory Rotation #1 directly with faculty
June 20, 2022	Deadline for receipt of official final transcripts and GRE scores by TPCB <i>(deadline extended for students at institutions with later graduation dates)</i>
July 1, 2022	Students arrive on Tri-I campuses and formally enroll at Weill Cornell; Welcome Meeting & Orientation with TPCB Directors and 2nd-Year Students <i>(start date flexible for students with extended academic commitments)</i>
July 10, 2022	Deadline for students planning to take classes at Columbia to enroll in the Columbia School of Professional Studies
Summer 2022	Students attend Meet the Faculty lunches with TPCB faculty
Summer 2022	Students attend Orientation events with peer mentors and institutional staff
Aug 31, 2022	Students establish Individual Development Plan and meet with First-Year Advisor to discuss and refine plan
Late Aug 2022	Graduate Student Orientation Week (hosted by Weill Cornell)
Sept 6, 2022	Classes begin on all campuses

### Laboratory Rotations – Year 1

*Students must complete at least 3 rotations on at least 2 campuses (Weill Cornell, Rockefeller, Sloan Kettering). A fourth rotation may be pursued and dates may be adjusted in consultation with First-Year Advisor and faculty, contingent upon satisfactory performance to date).*

July 2022 – Sep 2022	Laboratory Rotation #1	(3 months)
Oct 2022 – Jan 2023	Laboratory Rotation #2	(4 months)
Feb 2023 – May 2023	Laboratory Rotation #3	(4 months)

## Lecture Courses, Seminars, and Symposium

*Students must complete 4 lecture courses and participate in interactive seminars*

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|-------------|---|
| Years 1–2   | <p>1) TPCB Principles of Chemical Biology (Rockefeller, Fall, odd years)</p> <p>2) TPCB Chemistry in Biology &amp; Medicine (Weill Cornell, Spring)</p> <p>3) Core Course (<i>select one</i>)</p> <p style="padding-left: 20px;">Advanced Organic Chemistry (Columbia GU4147, Fall)</p> <p style="padding-left: 20px;">Biochemistry and Structural Biology Core (Weill Cornell, Fall)</p> <p style="padding-left: 20px;">Pharmacology I: Chemical Biology (Weill Cornell, Fall)</p> <p style="padding-left: 20px;">Statistical Thermodynamics (Columbia GU4230, Fall)</p> <p>4) Elective Course (<i>select one or a second course from Group 3</i>)</p> <p style="padding-left: 20px;"><i>Other electives may be selected with prior approval by Program Director</i></p> <p style="padding-left: 20px;"><i>Highlighted courses pending confirmation from course director</i></p> <p style="padding-left: 20px;">Applied Quantitative Techniques for the Biological Sciences (Weill Cornell, Fall)</p> <p style="padding-left: 20px;">Biochemical &amp; Biophysical Methods (Rockefeller, Fall, intermittent [expected 2021])</p> <p style="padding-left: 20px;">Cancer Pharmacology (Weill Cornell, Spring)</p> <p style="padding-left: 20px;">Cell Biology (Rockefeller, Spring, even years)</p> <p style="padding-left: 20px;">Cellular and Organismal Metabolism (Rockefeller, Winter)</p> <p style="padding-left: 20px;">Core Principles of Molecular Biophysics (Weill Cornell, Spring)</p> <p style="padding-left: 20px;">Cryoelectron Microscopy of Macromolecular Assemblies (NYSBC/NYU 4408, Spring)</p> <p style="padding-left: 20px;">Drug Development: From Molecule to Prescription (Weill Cornell, Spring)</p> <p style="padding-left: 20px;">NMR Spectroscopy of Macromolecules (NYSBC/Columbia G6270, Spring, even years)</p> <p style="padding-left: 20px;">Synthetic Methods in Organic Chemistry I (Columbia G4148, Fall)</p> |
| Years 1 & 2 | • TPCB Chemical Biology Seminar Course (seminars and journal club)  |
| Years 1 & 5 | • Tri-Institutional Responsible Conduct of Research Course (Fall) including required Rigor & Reproducibility workshop   |
| All Years   | • TPCB Research-in-Progress Student Seminar Series (approx. biweekly)   |
| All Years   | • Tri-Institutional Chemical Biology Symposium (annual)   |
| All Years   | • TPCB Student Career Development Retreat (annual)  |
| All Years   | • TPCB Open House Poster Session (annual)   |

## Thesis Research

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|-----------------|--|
| June 1, 2023    | Deadline for selection of thesis laboratory (end of Year 1)  |
| July 1, 2023    | Students relocate to housing at thesis mentor's institution and formally transfer to corresponding graduate school if necessary (beginning of Year 2)  |
| June 30, 2024   | Deadline for successful completion of PhD candidacy exam (end of Year 2): Admission to Candidacy Exam (Weill Cornell and Sloan Kettering) or Thesis Research Proposal (Rockefeller)                            |
| Fellowship      | Students must submit at least one external fellowship application during their training, generally based upon the thesis proposal  |
| Thesis Research | Thesis Committee meetings at least annually (Years 3 and 4) then at least every 6 months (Year 5 and beyond); Thesis Committee report must be filed with TPCB and graduate school in which student is enrolled |
| Thesis Defense  | Students complete written thesis, public oral presentation, and private defense with Thesis Committee and additional faculty examiner  |
| All Years       | Students required to abide by all policies & procedures of TPCB and graduate school in which they are formally enrolled (Weill Cornell or Rockefeller)   |