<table>
<thead>
<tr>
<th>Achieve Your Academic Goals</th>
<th>Maximize Research Impact</th>
<th>Build Skills and Experiences</th>
<th>Engage with Your Community</th>
<th>Launch Your Career</th>
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</thead>
<tbody>
<tr>
<td>Complete core and elective coursework for your track before your QE</td>
<td>Take post-candidacy research units (CHE 264)</td>
<td>Organize your results into publishable form with your research advisor</td>
<td>Attend writing workshops for your dissertation</td>
<td>Complete and review Individual Development Plan with your PI (Sample IDPs: CEP, ACS)</td>
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<tr>
<td>Take research units (CHE 263 and 299)</td>
<td>Meet with PI regularly to ensure proper trajectory for dissertation; meet annually with thesis committee</td>
<td>Attend conferences, present a poster or presentation, connect with potential collaborators</td>
<td>Consider an associate instructor (AI) position</td>
<td>Create a work or teaching portfolio</td>
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<tr>
<td>Establish goals with research advisor; meet with academic advisor as needed</td>
<td>Thesis prep set outline and deadlines with PI committee</td>
<td>Disseminate research: Publish your first project; present research at conferences</td>
<td>Apply for travel grants/fellowships</td>
<td>Seek out additional mentors, including contacts outside academia.</td>
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<tr>
<td>Select PI: Explore research options with lab rotations, meeting with ≥ 5 faculty</td>
<td>Discuss graduation timeline with PI committee</td>
<td>Advertise your research on social media platforms</td>
<td>Attend ACS/other webinars and social events including state/national opportunities</td>
<td>Seek out opportunities to do research at other labs/national facilities</td>
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<tr>
<td>Qualifying Exam: Start report several months ahead, solicit feedback, practice with peers</td>
<td>Consider giving Exit Seminar</td>
<td>Apply for travel grants/fellowships</td>
<td>Discuss future career positions with advisor, at meetings, and in professional settings</td>
<td>Networking: Meet with seminar speakers, attend job fairs and industry expos at conferences</td>
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<tr>
<td>Orientation: ACS exams, TA training, meet with academic advisor</td>
<td>Graduation Meet requirements/deadlines, file dissertation</td>
<td>Establish thesis committee (after QE)</td>
<td>Write sample cover letters highlighting your experiences and goals; seek feedback</td>
<td>Connect with people working in industry</td>
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<tr>
<td></td>
<td>Third-year Seminar (Winter / Spring quarter)</td>
<td>Meet with PI regularly to ensure proper trajectory for dissertation; meet annually with thesis committee</td>
<td>Networking: Consider working on a scientific society committee; network at the national- and international-levels</td>
<td>Networking: Meet with seminar speakers, attend job fairs and industry expos at conferences</td>
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<td>Join and get involved in ACS and/or other professional societies</td>
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</table>

### Year 1

- **Graduate Exam:** Start report several months ahead.
- **Research Units:** CHE 263 and 299.
- **Advising:** Establish goals with research advisor; meet with academic advisor as needed.

### Year 2

- **Qualifying Exam:** Start report several months ahead, solicit feedback, practice with peers.
- **Research Units:** CHE 264 and 299.
- **Advising:** Meet with PI regularly to ensure proper trajectory for dissertation; meet annually with thesis committee.

### Year 3

- **Research Units:** Take post-candidacy research units (CHE 264).
- **Advising:** Consider giving Exit Seminar.

### Year 4

- **Graduation:** Meet requirements/deadlines, file dissertation.
- **Advising:** Discuss future career positions with advisor, at meetings, and in professional settings.

### Year 4+

- **Advising:** Write sample cover letters highlighting your experiences and goals; seek feedback.
- **Advising:** Request letters of recommendation.

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**GradMap: Your Ph.D. Journey**

**Department of Chemistry, UC Davis**

**Graduate Pathways Institute and Internship and Career Center**

**Center for Educational Effectiveness (CEE)**

**Graduate Coursework:** Core and elective coursework for your track before your QE.

**Research Units:** CHE 263 and 299.

**Advising:** Meet with PI regularly to ensure proper trajectory for dissertation; meet annually with thesis committee.

**Qualifying Exam:** Start report several months ahead, solicit feedback, practice with peers.

**Establish thesis committee (after QE).**

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**Build a research plan with your PI and discuss your progress regularly.**

**Read scientific literature and discover the active frontiers in your field.**

**Apply for fellowships (e.g., NSF, NIH, CBP, etc.).**

**Organize your results into publishable form with your research advisor.**

**Attend conferences, present a poster or presentation, connect with potential collaborators.**

**Disseminate research: Publish your first project; present research at conferences.**

**Advertise your research on social media platforms.**

**Apply for travel grants/fellowships.**

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**Work as a teaching assistant to improve your science communication.**

**Attend research and writing workshops.**

**Seek out and learn new skills from collaborators.**

**Mentor an undergraduate student in the laboratory.**

**Obtain grant-writing skills.**

**Mentor younger graduate students in the laboratory.**

**Serve on department/university committees.**

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**Participate in existing outreach events.**

**Meet other graduate students in the program and your cohort.**

**Create professional social media accounts for networking.**

**Promote work from others in your field on social media.**

**Discover community engagement opportunities that you are passionate about.**

**Connect with other scientists in your field on social media; build your online network.**

**Participate in ACS/other webinars and social events including state/national opportunities.**

**Partner with outreach opportunities to mentor high school and undergraduate students.**

**Take a leadership role in outreach activities.**

**Recruit younger students to participate in outreach.**

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**Complete and review Individual Development Plan with your PI (Sample IDPs: CEP, ACS).**

**Create a living CV and keep it updated with skills and accomplishments.**

**Use campus career resources offered by GradPathways Institute and Internship and Career Center.**

**Seek out additional mentors, including contacts outside academia.**

**Create a work or teaching portfolio.**

**Attend career workshops.**

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**Consider an associate instructor (AI) position.**

**Attend ACS/other webinars and social events including state/national opportunities.**

**Networking:** Meet with seminar speakers, attend job fairs and industry expos at conferences.

**Connect with people working in industry.**

**Networking:** Consider working on a scientific society committee; network at the national- and international-levels.

**Discuss future career positions with advisor, at meetings, and in professional settings.**

**Write sample cover letters highlighting your experiences and goals; seek feedback.**

**Request letters of recommendation.**

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**Achieve Your Academic Goals.**

**Maximize Research Impact.**

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