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#### 2019 Orientation Schedule

|              | Mon Aug. 19   | Tues Aug. 20                                      |   | Wed Aug. 21                                    |  |  |   | Thurs Aug. 22   | Fri Aug. 23                                   | Tue, Sept. 3                      |                          |
|--------------|---|---|---|--|--|--|---|---|---|-----------------------------------|--------------------------|
| 8:00         |   | Breakfast and                                     | Analytical  | ChemBio  | Inorganic                                      | Organic  | Materials                                   | Pchem   |   |                                   |                          |
| 8:30         |   | Photos<br>8:00 - 9:00<br>Shain Atrium             |   | Chem Bio Advising                              |  | Organic Advising<br>8:15 - 8:50                                | Materials Advising<br>8:30 - 9:00           |   |   |                                   |                          |
| 9:00         |   | Welcome Talk                                      |   | 8:40 - 9:15<br>Rm 9341                         | Inorganic Advising                             | Rm 8335  | Rm 3219                                     | PChem Advising<br>9:00 - 9:30<br>Rm 8351                        |   |                                   |                          |
| 9:30         |   | Matt Sanders, Exec. Director 9:00 - 10:15 Rm 1315 |   | Chem Bio Advising<br>Appts.<br>w/Blackwell &   | 9:15 - 9:45<br>Rm 3219                         | Organic Advising   |   |   | Faculty<br>Presentations                      | Faculty<br>Presentations          |                          |
| 10:00        |   | Break<br>10:15 - 10:30                            | Analytical Advising<br>10:15 - 10:45                    | Gellman<br>9:20 - 11:00<br>Rm 5211A &<br>7132A |  | Appts. w/Burke or<br>Wickens<br>9:00 - 11:00<br>Rm 7112 & 6365 | Materials Advising Appts. w/Boydston or Jin | PChem Advising<br>Appts. w/Cavagnero<br>9:45 - 10:45<br>Rm 5357 | 9:00 - 11:00<br>Rm 1315                       | 9:00 - 11:00<br>Rm 1315           | Faculty<br>Presentations |
| 10:30        |   | Benefits Char<br>& Marc 10:30 -<br>11:00          | Rm 8335   | /132A  | Inorganic Advising<br>Appts. w/<br>Fredrickson |  | 9:00 - 11:15<br>Rm 7365 & 3363A             |   |   |                                   | 9:15 - 11:30<br>Rm 1315  |
| 11:00        | International<br>Students will be<br>invited to take the<br>Speak Test, Time<br>TBD | Group Joining Steve<br>Burke 11:00<br>- 11:30     | Advising Appts.<br>10:45-11:45 w/<br>Bertram<br>Rm 4355 |  | 10:15 - 11:50<br>Rm 6327                       |  |   |   | Lunch   |                                   |                          |
| 11:30        |   |   |   |  |  |  |   | _   | 11:00 - 12:45<br>Rm 9341                      |                                   |                          |
| 12:00        |   | Lunch<br>11:30 - 1:00<br>Rm 9341                  |   | Register for classes,                          | complete blue schedule                         | e & turn in to Undergrad                                       | office 1328 by 1 pm                         |   |   | Lunch on your own                 | Lunch on your own        |
| 12:30        |   |   |   |  |  | - 1:00<br>9341   |   |   |   |                                   |                          |
| 1:00         |   | Faculty Panel                                     |   |  |  |  |   |   |   |                                   |                          |
| 1:30         |   | 1:00 - 2:00                                       |   |  |  |  |   |   | Faculty<br>Presentations                      |                                   |                          |
| 2:00         |   | Graduate School<br>Workshops<br>2:00 - 2:30       |   |  | Faculty Pre                                    | esentations  |   |   | 1:00 - 3:30<br>Rm 1315                        | Faculty Presentations 1:30 - 3:30 | Teaching<br>Meetings     |
| 2:30         |   |   |   |  | 1:15   | - 4:30<br>1315   |   |   |   | Rm 1315                           |                          |
| 3:00         |   |   |   |  |  |  |   |   |   |                                   |                          |
| 3:30<br>4:00 |   |   |   |  |  |  |   |   | ISS Training for<br>International<br>Students |                                   |                          |
| 5:00         | ACS Social "Science on Tap", 5 - 8pm Union South/                                   |   |   | Pizza in                                       | atrium (1st year stude                         | ents & faculty) 5:00 -   | 6:00 pm                                     |   | 3 - 5 pm<br>Grainger Hall                     | ACS mta 9                         | -25 to 8-29              |
| 5:30         | Industry Room   |   |   |  |  |  |   |   |   | ACS mtg 8                         | -25 to 8-29              |

#### **TA Training Next Week!**

Welcome to the UW-Madison Chemistry Department! One of the many roles you will hold as first-semester graduate students here is that of teaching assistant. There are many varieties of TA positions here, depending on the course to which you are assigned. Next week, we are going to work to help you prepare for whichever role you will hold.

For now, there is nothing you need to do but (1) keep your schedule open next week and (2) watch for an e-mail from TA Training Committee. That e-mail will include further instructions for how to prepare. There will be homework for each day, including over the weekend for Monday. Expect for training days to occupy 8:30AM to 5:30PM. Your specific schedule, including location information, will be given to you once we know who all is teaching in each path. That information will also be available on the training website, for which you will receive an invitation in due time. It is an intense week, and the goal is to make sure that you are fully prepared when you walk into class on day 1.

The instruction e-mail will be sent at the end of this week. If you have questions that require an answer prior to then, please feel free to reach out to Stephen Block (<a href="mailto:sblock@chem.wisc.edu">sblock@chem.wisc.edu</a>). If you already know your path for teaching (which may be different than your PhD path), you may also directly contact one of the individuals associated with that training program.

We wish you well this week and look forward to spending more time with you during the next!

The TA Training Committee:

Stephen Block (general chemistry) (sblock@chem.wisc.edu)

Pam Doolittle (analytical chemistry) (pam.doolittle@wisc.edu)

Aubrey Ellison (organic chemistry) (ajellison@wisc.edu)

Brian Esselman (organic chemistry) (brian.esselman@wisc.edu)

Lea Gustin (general chemistry) (lsgustin@wisc.edu)

Liana Lamont (general chemistry) (lblamont@wisc.edu)

Lindy Stoll (general chemistry) (lstoll@wisc.edu)

#### **ANALYTICAL**

# ADVISING SCHEDULE WEDNESDAY, AUGUST 21<sup>ST</sup>, 2019

| 10:15 am | Group Advising Meeting – Room 8335 |
|----------|------------------------------------|
|          |                                    |
|          |                                    |

# Individual Advising Appointments Professor Bertram Room 4355

| Time     | Student                 |
|----------|-------------------------|
| 10:45 am | Caroline Anastasia      |
| 10:55 am | Thomas Derrah           |
| 11:05 am | Brandon Hacha           |
| 11:15 am | Isabella Whitworth      |
| 11:25 am | Zhijun Zhu              |
| 11:35 am | Stephanie Richards (MS) |

#### **CHEMICAL BIOLOGY**

## ADVISING SCHEDULE WEDNESDAY, AUGUST 21<sup>ST</sup>, 2019

|  | 08:40 am | Group Advising Meeting – Room Chemistry 9341 |
|--|----------|--|
|--|----------|--|

# Individual Advising Appointments Professor Samuel Gellman - Room 7132A

| Time     | Student          |
|----------|------------------|
| 09:20 am | Nishit Banka     |
| 09:30 am | Jedidiah Chung   |
| 09:40 am | Christopher Dade |
| 09:50 am | Hung Dang        |
| 10:00 am | Sifei Fang       |
| 10:10 am | Gillian Good     |
| 10:20 pm | Joshua Immke     |
| 10:30 am | Eric Kohn        |
| 10:40 am | Joshua Kreisel   |

# Individual Advising Appointments Professor Helen Blackwell - Room 5211A

| Time     | Student            |
|----------|--------------------|
| 09:20 am | Byung Uk Lee       |
| 09:30 am | Ethan Licht        |
| 09:40 am | John Mannone       |
| 09:50 am | Dominic Mattock    |
| 10:00 am | Rylie Morris       |
| 10:10 am | Ashley Roux        |
| 10:20 pm | Emma Santa         |
| 10:30 am | Jamorious Smith    |
| 10:40 am | Alexander Tetzloff |
| 10:50 am | Wenxin Wu          |

#### **INORGANIC**

# ADVISING SCHEDULE WEDNESDAY, AUGUST 21<sup>ST</sup>, 2019

| 9:15 am | Group Advising Meeting – Room 3219 |
|---------|------------------------------------|
|         |                                    |
|         |                                    |

# Individual Advising Appointments Professor Daniel Fredrickson Room 6327

| Time     | Student               |
|----------|-----------------------|
| 10:00 am | Milton Acosta         |
| 10:10 am | Froylan Fernandez     |
| 10:20 am | Brandon Flores        |
| 10:30 am | Ryan Hall             |
| 10:40 am | Melissa Hopkins       |
| 10:50 am | Richard Huntwork      |
| 11:00 am | Haley Morgenstern     |
| 11:10 am | Mackinsey Smith       |
| 11:20 am | Zhiming Su            |
| 11:30 am | AnnaBeth Thomas       |
| 11:40 am | Shiyuan (Philip) Zhou |

#### **MATERIALS**

## ADVISING SCHEDULE WEDNESDAY, AUGUST 21<sup>ST</sup>, 2019

|  | 8:30 am | Group Advising Meeting – Room 3219 |
|--|---------|------------------------------------|
|--|---------|------------------------------------|

### Individual Advising Appointments Professor Song Jin - Room 3363A

| Time     | Student              |
|----------|----------------------|
| 09:00 am | Ryan Belson          |
| 09:15 am | Katelyn Michael      |
| 09:30 am | Willa Mihalyi-Koch   |
| 09:45 am | Anand Ode            |
| 10:00 am | Connor Protter       |
| 10:15 am | Emily Reasoner       |
| 10:30 am | Connor Schmidt       |
| 10:45 am | Jonathan Van Buskirk |
| 11:00 am | Rui Wang             |

#### Individual Advising Appointments Professor AJ Boydston - Room 7365

| Time     | Student           |
|----------|-------------------|
| 09:00 am | Ernest Alvino     |
| 09:15 am | Hyeonjeong Bae    |
| 09:30 am | Sarah Benware     |
| 09:45 am | Rachel Czerwinski |
| 10:00 am | Princess Merenini |
| 10:15 am | Julia Smith       |
| 10:30 am | Patrick Sullivan  |
| 10:45 am | Margaret Tetzloff |

#### **ORGANIC**

# ADVISING SCHEDULE WEDNESDAY, AUGUST 21<sup>ST</sup>, 2019

| 8:15 am | Group Advising Meeting – Room 8335 |
|---------|------------------------------------|
|         |                                    |

## Individual Advising Appointments Professor Steve Burke - Room 7112

| Time     | Student                 |
|----------|-------------------------|
| 09:00 am | Sara Alketiar           |
| 09:15 am | William (Bill) Breining |
| 09:30 am | Benjamin Chi            |
| 09:45 am | Alyah Chmiel            |
| 10:00 am | Anthony DiBernardo      |
| 10:15 am | Emma Eisenbraun         |
| 10:30 am | Mareena Franke          |
| 10:45 am | Ethan Hartman           |

## Individual Advising Appointments Professor Zach Wickens - Room 6365

| Time     | Student              |
|----------|----------------------|
| 09:00 am | Minji Kim            |
| 09:15 am | Philip Lampkin       |
| 09:30 am | Matthew Lish         |
| 09:45 am | David Moreno         |
| 10:00 am | Tyler Ogorek         |
| 10:15 am | Surajudeen Omolabake |
| 10:30 am | Matthew Rossler      |
| 10:45 am | Karina Targos        |

#### **PHYSICAL**

# ADVISING SCHEDULE WEDNESDAY, AUGUST 21<sup>ST</sup>, 2019

| 9:00 am | Group Advising Meeting – Room 8351 |
|---------|------------------------------------|
|         |                                    |
|         |                                    |

# Individual Advising Appointments Professor Silvia Cavagnero Room 5357

| Time     | Student        |
|----------|----------------|
| 9:45 am  | Inhyuk Jang    |
| 10:00 am | Yejung Lee     |
| 10:15 am | Riley Peterson |
| 10:30 am | Yulia Podorova |



| Wednesday, August 21 |                  |  |  |  |
|----------------------|------------------|--|--|--|
| 01:15 pm             | Joshua Coon      |  |  |  |
| 01:30 pm             | Lingjun Li       |  |  |  |
| 01:45 pm             | Judith Burstyn   |  |  |  |
| 02:00 pm             | Sam Gellman      |  |  |  |
| 02:15 pm             | Ying Ge          |  |  |  |
| 02:30 pm             | Thomas Brunold   |  |  |  |
| 02:45 pm             | Break            |  |  |  |
| 03:00 pm             | Silvia Cavagnero |  |  |  |
| 03:15 pm             | Randy Goldsmith  |  |  |  |
| 03:30 pm             | Robert McMahon   |  |  |  |
| 03:45 pm             | John Wright      |  |  |  |
| 04:00 pm             | AJ Boydston      |  |  |  |
| 04:15 pm             | Song Jin         |  |  |  |

| Friday, August 23 |                    |  |  |
|-------------------|--------------------|--|--|
| 09:00 am          | John Berry         |  |  |
| 09:15 am          | JR Schmidt         |  |  |
| 09:30 am          | Ned Sibert         |  |  |
| 09:45 am          | Arun Yethiraj      |  |  |
| 10:00 am          | Break              |  |  |
| 10:15 am          | Martin Zanni       |  |  |
| 10:30 am          | Yang Yang          |  |  |
| 10:45 am          | Gil Nathanson      |  |  |
| 11:00 am          | Lunch Break        |  |  |
| 01:30 pm          | Joel Pedersen      |  |  |
| 01:45 pm          | David Lynn         |  |  |
| 02:00 pm          | Sandro Mecozzi     |  |  |
| 02:15 pm          | Bassam Shakhashiri |  |  |

| Thursday, August 22 |  |  |  |  |
|---------------------|--|--|--|--|
| 09:00 am            | Dan Weix                                   |  |  |  |
| 09:15 am            | Weiping Tang                               |  |  |  |
| 09:30 am            | Jeffrey Martell                            |  |  |  |
| 09:45 am            | Zach Wickens                               |  |  |  |
| 10:00 am            | Break                                      |  |  |  |
| 10:15 am            | Schomaker Group (Minsoo Ju)                |  |  |  |
| 10:30 am            | Dawei Feng                                 |  |  |  |
| 10:45 am            | Andrew Buller                              |  |  |  |
| 11:00 am            | Lunch Break                                |  |  |  |
| 01:00 pm            | Thomas Record                              |  |  |  |
| 01:15 pm            | Helen Blackwell                            |  |  |  |
| 01:30 pm            | Tina Wang                                  |  |  |  |
| 01:45 pm            | Jennifer Golden                            |  |  |  |
| 02:00 pm            | Tim Bertram                                |  |  |  |
| 02:15 pm            | Break                                      |  |  |  |
| 02:30 pm            | Daniel Fredrickson                         |  |  |  |
| 02:45 pm            | Etienne Garand                             |  |  |  |
| 03:00 pm            | Ediger Group (Kushal Bagchi & Marie Fiori) |  |  |  |
| 03:15 pm            | Robert Hamers                              |  |  |  |

| Tuesday, September 3 |                  |  |  |
|----------------------|------------------|--|--|
| 09:15 am             | Sam Pazicni      |  |  |
| 09:30 am             | Ryan Stowe       |  |  |
| 09:45 am             | Ive Hermans      |  |  |
| 10:00 am             | Pupa Gilbert     |  |  |
| 10:15 am             | Break            |  |  |
| 10:30 am             | Lloyd Smith      |  |  |
| 10:45 am             | Kyoung-Shin Choi |  |  |
| 11:00 am             | Shannon Stahl    |  |  |
| 11:15 am             | Tehshik Yoon     |  |  |

#### **Course Requirements by Path\***

| Required       | Analytical       | Chem Biol            | Inorganic                | Materials        | Organic          | Physical                 |
|----------------|------------------|----------------------|--------------------------|------------------|------------------|--------------------------|
|                |                  |                      |                          |                  |                  |                          |
|                |                  |                      |                          | one of the       |                  |                          |
|                |                  |                      |                          | following: 613,  |                  |                          |
|                |                  |                      |                          | 624, 630, 652,   |                  |                          |
| Core Course    | 621              | 704                  | 608                      | or 653 (hard)    | 641              | 661                      |
|                | one of the       |                      |                          |                  |                  |                          |
|                | following: 622,  | one of the           |                          | one of the       |                  |                          |
|                | 623, 624, 625,   | following: 606,      |                          | following: 654,  |                  |                          |
|                | 626, 627, 628,   | 621, 622, 627,       |                          | 664, or 842      |                  |                          |
| Core Course    | 629, or 630      | 630, or 668          | 713                      | (soft)           | 841              | 675                      |
|                |                  |                      |                          |                  |                  |                          |
|                | one of the       |                      |                          | one of the       |                  |                          |
|                | following: 622,  |                      |                          | following: 613,  |                  |                          |
|                | 623, 624, 625,   |                      |                          | 624, 630,        |                  |                          |
|                | 626, 627, 628,   |                      |                          | 652,653, 654,    |                  | Seminar 960 <sup>4</sup> |
| Core Course    | 629, or 630      |                      |                          | 664, or 842      |                  | for 2 credits            |
| core course    | 023, 01 030      |                      |                          | 004, 01 042      |                  | 101 2 Credits            |
| Seminar        | Seminar 920      | Seminar <sup>2</sup> | Seminar 900 <sup>3</sup> | Seminar 920      | Seminar 940      | Seminar 960 <sup>4</sup> |
|                | 0.0.1            | 0.5.1                | 0.0.1                    | 0.5.1            | 1                | 0.5.1                    |
| Group Meeting  | 964 <sup>1</sup> | 964 <sup>1</sup>     | 964 <sup>1</sup>         | 964 <sup>1</sup> | 964 <sup>1</sup> | 964 <sup>1</sup>         |
| Safety Course  |                  |                      |                          |                  |                  |                          |
| (Jan 14-17)    | 607              | 607                  | 607                      | 607              | 607              | 607                      |
| Incoming       |                  |                      |                          |                  |                  |                          |
| Student Course |                  |                      |                          |                  |                  |                          |
|                | 001              | 001                  | 001                      | 001              | 001              | 001                      |
| (Fall)         | 901              | 901                  | 901                      | 901              | 901              | 901                      |
| Minor (9 cr)   | satisfy          | satisfy              | satisfy                  | satisfy          | satisfy          | satisfy                  |
|                |                  |                      |                          |                  |                  |                          |
|                |                  |                      |                          |                  |                  | one of the               |
|                |                  |                      | £ 4 !: .                 |                  |                  | one of the               |
|                |                  |                      | two of the               |                  |                  | following: 664,          |
| D              |                  |                      | following: 606,          |                  |                  | 665, 668, 762,           |
| Recommended    |                  |                      | 613, 630, 714,           |                  | strongly: 605,   | 763, 775, 777,           |
| Courses        |                  |                      | or 801                   |                  | 636, 843         | 860, 864, 872            |
| Dagage         | 002 1            | 998 <sup>1</sup>     | 994 <sup>1</sup>         | 996 <sup>1</sup> | 990 <sup>1</sup> | 992 <sup>1</sup>         |
| Research       | 993 <sup>1</sup> | 998                  | 994                      | 996              | 990              | 992                      |

<sup>\*</sup>Students are recommended to sign up for the maximum number of credits in fall and spring (15 credits). Research credits can be adjusted to reach the maximum credits

<sup>&</sup>lt;sup>1</sup>Students should sign up for the group meeting and research course in the section of the adviser. Incoming students should sign up for section 1 of the research course in the fall semester.

<sup>&</sup>lt;sup>2</sup>Students should sign up for the seminar course recommended by their adviser.

<sup>&</sup>lt;sup>3</sup>Fall and spring semesters of the first two years, the incoming graduate students are required to read 2 journal articles, submit 5 questions, and write a 3-4 page paper about the research of a designated seminar speaker.

<sup>&</sup>lt;sup>4</sup>Take for 2 credits in spring of first year. Other semsters take for 0 credits.

## Chemistry Graduate Classes Offered Fall 2019 - Spring 2020

Fall 2019 Spring 2020

|                       | 1        |               | = 15 15              |                |      | 5pring 20   |                          |
|-----------------------|----------|---------------|----------------------|----------------|------|-------------|--------------------------|
| Course                | Path     | Faculty       | Time/Day/Room        | Course         | Path | Faculty     | Time/Day/Room            |
|                       |          |               |                      |                |      |             |                          |
| 547                   | 0        | Weix          | 12:05 MWF #1315      | 505            | 0    | Hermans     | 1:00 TR #B371            |
|                       |          |               |                      |                |      | Banholzer   |                          |
| 561                   | P        | Woods         | 9:55 MWF #B371       |                |      |             |                          |
|                       |          |               |                      | 511            | I    | Berry       | 1:20 MWF #2373           |
| 562                   | Р        | Yang          | 8:50 MWF #B371       |                |      |             |                          |
|                       |          |               |                      | 524            | Α    | Bertram     | 9:55 TR #1315            |
| 563/564               | Р        | Nathanson     | 1:20 MTWR #B200      |                |      |             |                          |
|                       | S        | Wendt         | 1:20 MTWR #B200      | 561            | Р    | Sibert      | 9:55 MWF #1315           |
|                       |          |               |                      |                |      |             |                          |
| 565/665               | Р        | Record        | 8:50 MTWF #1315      | 562            | Р    | Yethiraj    | 8:50 MWF #1315           |
| 303,003               | •        | record        | 0.50 111111 11213    | 302            |      | retimaj     | 0.50 10101 111515        |
|                       | 1_       |               |                      |                | _    | 1_          |                          |
| 608                   | I        | Fredrickson   | 11:00 MWF #2307      | 563/564        | P    | Zanni       | 1:20 MTWR #B200          |
|                       |          | ļ             |                      |                | S    | Wendt       | 1:20 MTWR #B200          |
| 621                   | Α        | Wright        | 8:50 MWF #2377       |                |      |             |                          |
|                       |          |               |                      | 565/665        | P    | Cavagnero   | 9:55 MTRF #B371          |
|                       |          |               | 9:55 TR              |                |      |             |                          |
| 622                   | Α        | Li            | #1116 Rennebohm      |                |      |             |                          |
|                       |          |               |                      | 605            | 0    | Schomaker   | 12:05 MWF #1315          |
| 624                   | Α        | Choi          | 11:00 TR #8335       |                |      |             |                          |
|                       |          |               |                      | 606            | 1    | Brunold     | 11:00 MWF #2373          |
| 629                   | Α        | Bertram       | 9:55 MWF #2311       |                | i    | Burstyn     |                          |
| 023                   |          | Dertram       | 3.55 11.01 11.2522   |                |      | Burstyn     |                          |
| 636                   | S        | Hofstetter    | 11:00 M #2373        | 623            | Α    | Wright      | 8:50 TR #B379            |
| 030                   | 3        | Holstetter    | 11:00 W #2373        | 023            | ^    | vviigiit    | 8.30 IN #D373            |
| C 4 4                 | _        | D 4 - D 4 - I | 42.05.8045.#2272     | 620            |      | NA - Clair  | 0.110                    |
| 641                   | 0        | McMahon       | 12:05 MWF #2373      | 628            | Α    | McClain     | On-Line Course           |
|                       | 0        | Martell       |                      |                |      | _           |                          |
|                       |          |               |                      | 636            | S    | Hofstetter  | 8:50 T #2311             |
| 652                   | Α        | Hamers        | 11:00 MWF #2311      |                |      |             |                          |
|                       |          |               |                      | 638            | S    | Vestling    | 9:55 R #2311             |
| 661                   | P        | Yethiraj      | 11:00 MWF #8335      |                |      |             |                          |
|                       |          |               |                      | 654            | 0    | Boydston    | 9:30 TR #8335            |
| 668                   | Р        | Cavagnero     | 8:50 MWF #8335       |                |      |             |                          |
|                       |          |               |                      | 801            | I    | Fredrickson | 2:25 MWF #8335           |
| 675                   | Р        | Sibert        | 9:55 MWF #8335       |                |      |             |                          |
| <u>- <del>-</del></u> | 1        |               |                      | 841            | О    | Burke       | 11:00 MWF #1315          |
|                       |          |               | 11:00 TR             | 041            |      | Darke       | 11.00 1/1/1/ // // // // |
| 704                   | o        | Buller        | #2131 DeLuca Biochem |                | o    | Weix        |                          |
| 704                   | -        | Bullet        | #2131 DeLuca Diochem |                | 0    | VVEIX       |                          |
| 713                   | 1        | Borry         | 2:25 MWF #2307       | 845            | 0    | Gellman     | 1:20 MWF TBD             |
| / 13                  | -        | Berry         | 2.23 IVIVVF #23U/    | 043            | 0    | Jeiiiiali   | 1.20 IVIVVF IDD          |
|                       | <u> </u> | C: 11         | 0.00 FD #005-        | 000            | -    | DI 1 "      |                          |
| 714                   | I        | Stahl         | 9:30 TR #8335        | 890 (PharmSci) | CB   | Blackwell   | TBD                      |
|                       |          |               |                      |                |      |             |                          |
|                       |          |               | 9:30 MW #2373        |                |      |             | 11:00 T #1315,           |
| 843                   | 0        | Wickens       | 8:50 F #2373         | 960            | P    | Yang        | 1:20 MW #8335            |

# Seminar Days and Times (Chemistry Seminar Hall #1315)

| Path                    | Day       | Time                             |
|-------------------------|-----------|----------------------------------|
| Physical                | Tuesday   | 11:00 am                         |
| Organic                 | Tuesday   | 3:30 pm                          |
| Chem Bio                | Tuesday   | 3:30 pm (alternate with Organic) |
| Inorganic               | Wednesday | 3:30 pm                          |
| Analytical or Materials | Thursday  | 12:05 pm                         |
| Chem Bio                | Thursday  | 11:00 am                         |
| Organic                 | Thursday  | 3:30 pm (2 <sup>nd</sup> option) |
| Colloquia               | Friday    | 3:30pm                           |

# Instructions for Completing Blue Schedule Cards Fall 2019 - in room 1375 from 9am-12:45pm

If you will (or might) be teaching Fall 2019 semester, please complete a blue schedule card and return to the <u>Undergraduate Chemistry Office, Room 1328</u>. We need schedules from all TAs/FAs/UAs teaching in all areas, except for the Instrument Center Tech TAs. **Please return completed card on Wednesday, August 21, 2019**.

1. **Identifying Information**. Fill in last name, first name, UW email, cell phone, and campus phone (if applicable). Indicate the appropriate semester by filling in the last two digits of the year. Graduate students should complete the section on the middle right (year, path, advisor, etc.). Everyone should note previously taught courses. Feel free to indicate your course preference(s), but keep in mind that teaching assignments are most often dictated by a very complicated scheduling puzzle!

#### 2. Schedule Grid. \*\*PLEASE USE PENCIL FOR THIS PART\*\*

- a. **USING PENCIL**, please record your class schedule for the fall semester and any commitments that will affect your teaching assignment (e.g., group meetings and seminars).
- b. Note that the time grid is set up along the University's class schedule, assuming that classes are all 50 minutes long. Some classes are 75 minutes long and they don't fit neatly into this grid. If you have an obligation that does not line up with the times in the given spaces, indicate in the adjoining blocks that you will be unavailable and write the exact start and end times of your commitment. For example, if you have class Tuesdays from 9:30am-10:45am, use both the 8:50-9:40 and 9:55-10:45 blocks and write in "9:30-10:45; CHEM 654".
- c. Please be sure to indicate what your obligation is for each time you have indicated you are unavailable. For example, write "CHEM 766" or "Seminar". **DO NOT use just an "X."**
- d. If you have more than one seminar on your schedule please rank them in order of priority, where 1 = highest priority. While we will do our best to accommodate seminars, we sometimes are unable to do so. Do the same thing for group meetings, if you have multiple ones.
- e. If you have a commitment that is outside of the Chemistry building and some distance away (e.g., in Pharmacy), please make a note on the bottom of the card.
- f. If any of your commitments are flexible, please indicate so on the card.
- g. If you have any uncertainties in your schedule, please explain on the bottom of the card. If you need more room, you may use the back. Please indicate clearly on the front that more information is on the back.
- 3. **Changes?** If you make any changes to your schedule, please stop by the Undergraduate Chemistry Office (room 1328) as soon as possible to correct your card.

PLEASE RETURN THE BLUE SCHEDULE CARD TO Undergraduate Chemistry Office, Room 1328 by Wednesday, August 21, 2019, no later than 1pm.

## Academic Calendar 2019-2020

| Event   | Dates                        |
|---|------------------------------|
| Register for Fall Classes                     | August 21                    |
| Orientation                                   | August 20-23, September 3    |
| TA Training                                   | August 26-30, September3     |
| Fall Instruction Begins                       | September 4                  |
| Rotation #1                                   | September 9 – 27             |
| Rotation #2                                   | September 30 – October 18    |
| Rotation #3                                   | October 21 – November 8      |
| NSF GRFP Due                                  | Oct. 21 (Life Sciences)      |
|   | Oct. 22 (Materials Research) |
|   | Oct. 24 (STEM Education)     |
|   | Oct. 25 (Chemistry)          |
| Last Day to Add/Drop Fall Classes w/o Dean    | November 1                   |
| Approval                                      |                              |
| Last Day to Request Pass/Fail or Credit/Audit | November 1                   |
| Options for Fall Classes                      |                              |
| Spring Enrollment Begins                      | November 11                  |
| Match Period for Research Group               | November 11 - 15             |
| Rotation #4 (optional)                        | November 18 – December 6     |
| Thanksgiving Recess                           | November 28 – December 1     |
| Deadline for Graduate Students to Withdraw    | December 11                  |
| from the Fall Semester                        |                              |
| Last Day of Fall Classes                      | December 11                  |
| Final Exams                                   | December 13 – 19             |
| Winter Break                                  | December 20 – January 20     |
| Chem 607 Safety Course                        | January 14 - 17              |
| Spring Instruction Begins                     | January 21                   |
| Spring Break                                  | March 14 - 22                |
| Last Day to Add/Drop a Spring Class w/o       | March 20                     |
| Dean Approval                                 |                              |
| Last Day to Request Pass/Fail or Credit/Audit | March 20                     |
| Options for Spring classes                    |                              |
| Deadline for Graduate Students to Withdraw    | May 1                        |
| from the Spring Semester                      |                              |
| Last Day of Spring Classes                    | May 1                        |
| Final Exams                                   | May 3 - May 8                |

### **Department Waiver for Courses Taken at Other Institutions**

A graduate student can receive a Departmental wavier for up to 12 credits toward UW-Madison PhD course requirements for courses taken at other institutions. These courses will not appear on the UW-Madison transcript nor count toward the graduate career GPA at UW-Madison. Coursework earned ten or more years prior to admission to a doctoral degree is not allowed to satisfy requirements.

To waive courses, you will need to:

- 1. Fill out the following form
- 2. Print the form and obtain a signature of approval from the UW-Madison faculty member.
- 3. Return a signed copy of the form to Arrietta Clauss.

| Date                     | <del></del>   |             |  |
|--------------------------|---------------|-------------|--|
| Student Name             |               |             |  |
| Last                     | First         |             |  |
| UW-Madison course        |               |             |  |
| Course number            |               |             |  |
| Course name              |               |             |  |
| Number of credits        |               |             |  |
|                          |               |             |  |
| (Printed)                |               | (Signature) |  |
| Other institution course |               |             |  |
| Institution name _       |               |             |  |
| Course number            |               |             |  |
|                          |               |             |  |
| Number of credits        |               |             |  |
| Grade received           |               |             |  |
| Short description        | of the course |             |  |

# Students are required to attend research presentations by faculty in their path and are strongly encouraged to attend presentations by all other faculty

**Faculty affiliated with Analytical Sciences Path:** Bertram, Cavagnero, Choi, Coon, Garand, Ge, Goldsmith, Hamers, Jin, Li, Smith, Wright, and Zanni

**Faculty affiliated with the Chemical Biology Path:** Blackwell, Brunold, Buller, Burstyn, Cavagnero, Coon, Forest, Ge, Gellman, Goldsmith, Hamers, Hoskins, Jin, Li, Lynn, Martell, Mecozzi, Record, Smith, Tang, Wang, and Zanni

**Faculty affiliated with the Chemical Education Chemistry Path:** Moore, Pazicni, Shakhashiri, and Stowe

**Faculty affiliated with the Inorganic Chemistry Path**: Berry, Brunold, Burstyn, Choi, Feng, Fredrickson, Goldsmith, Hermans, Jin, Martell, Stahl, Weix, Wickens, Wright, and Yoon

**Faculty affiliated with the Materials Chemistry Path:** Boydston, Choi, Ediger, Feng, Fredrickson, Gellman, Goldsmith, Gong, Gopalan, Hamers, Hermans, Jin, Martell, McMahon, Nathanson, Pedersen, Schmidt, Smith, Wright, and Zanni

**Faculty affiliated with the Organic Chemistry Path:** Berry, Blackwell, Boydston, Buller, Cavagnero, Feng, Gellman, Golden, Goldsmith, Gopalan, Hermans, Lynn, Martell, McMahon, Mecozzi, Record, Schomaker, Stahl, Tang, Weix, Wickens, and Yoon

**Faculty affiliated with the Physical Chemistry Path:** Bertram, Brunold, Cavagnero, Ediger, Fredrickson, Garand, Gellman, Gilbert, Goldsmith, Hamers, Hoskins, Jin, McMahon, Nathanson, Record, Schmidt, Sibert, Wright, Yang, Yethiraj, and Zanni

#### **Selecting a Graduate Research Advisor**

A major objective for new graduate students is to join a research group. The UW–Madison Chemistry Program Faculty recognize that each new student will have his or her own approach, but we have developed several mechanisms to facilitate the process. The procedure has <u>four</u> overall components: faculty interaction, individual research into groups, interaction with group members, and timeliness. Key features of this procedure are as follows:

- 1. All students should attend <u>all or as many as possible</u> of the research talks at which faculty members will outline research opportunities in their groups. These seminars prior to Fall term are short and provide only a snapshot of each group, so you will need to complement this information with your own research. It is extremely valuable to look at faculty web pages **before** their overview seminar, as it will help you put the seminar in context. An initial goal is for you to identify groups whose research interests you.
- 2. Although you will choose 3 groups for rotations, students should meet to discuss research opportunities in greater depth with at least ~5 faculty members. You are encouraged to meet with all faculty members whose research interests you. You should come to these meetings prepared to discuss recent papers published by the faculty member and possible future directions of their research.
- 3. All students will participate in at least 3 rotations. These rotations provide a mechanism for new students to interact more extensively with a faculty member and other group members.
- 4. Neither students nor faculty members can make any commitment before the group matching process in mid-**November**.

The features above facilitate the selection process by providing you with the means to extend and amplify your knowledge of chemistry research at UW-Madison.

- Feature 1 provides all new students with an overview of activities on the UW campus.
- Features 2 & 3 give students an opportunity to become familiar with research interests within the Chemistry Ph.D. program, and beyond. The meetings with faculty ensure that new students appreciate the full range of research opportunities available. Take advantage of the opportunity to get to know a wide range of faculty and students.
- **Feature 3** provides a mechanism to get to know group members as well as advisors. Interaction with a potential advisor is not the only way to judge a prospective research group. You should attend group meetings (of groups you are rotating with as well as those pursuing research of interest to you) to get a sense of the range of research projects as well as the laboratory dynamics. If the group you are considering has senior students or postdoctoral associates, you also should seek their perspective. They can introduce you to their research goals, those of their research group, and provide insight and perspective on the mechanics of the group selection process. Additionally, you will want to hear their perspective on "life" in the group.
- **Feature 4** ensures that new graduate students have the time to make the necessary faculty and group contacts prior to making a final decision. New graduate students are encouraged to start their evaluation of potential advisors as soon as possible, because the first rotation choices are due in late August/early September. The evaluation period should continue throughout the rotation periods, as research interests can evolve as students learn more about the wide range of options.

#### Choosing a Research Group: Rotations for Fall 2019

The choice of a research group is the most important decision you will make in your first semester of graduate school. Get an early start on thinking about which groups you might want to join. Collect information from a wide variety of sources including the faculty, the graduate students, publications, websites, and faculty talks during Orientation. Carry out rotations in, and attend the meetings of, the groups in which you are most interested.

You are required to carry out three rotations and interview at least five different faculty members before making your decision. As you narrow down your choice of groups, be sure to discuss with the faculty members whether they are taking students onto the projects in which you are interested.

#### **Rotation Schedule**

• Rotation 1: Sept. 9<sup>th</sup> - Sept. 27<sup>th</sup>

• Rotation 2: Sept. 30<sup>th</sup> - Oct.18<sup>th</sup>

• Rotation 3: Oct. 21st - Nov. 8th

• Rotation 4: Nov. 18<sup>th</sup> - Dec. 6<sup>th</sup> (optional)

Submit your rotation choices (in order of preference) via the online form (<a href="www.chem.wisc.edu/content/rotation-selection-form">www.chem.wisc.edu/content/rotation-selection-form</a>) by 9 a.m. on the following dates:

Rotation 1: Sept. 4<sup>th</sup>
 Rotation 2: Sept. 25<sup>th</sup>
 Rotation 3: Oct. 16<sup>th</sup>

• Rotation 4: Nov. 15<sup>th</sup>

During these rotations you will have the following opportunities: 1) discuss the research, laboratory, and potential projects with the faculty member; 2) interact with students in the faculty member's laboratory; and 3) attend group meetings and/or any associated super-group meetings (schedules permitting). Depending upon the faculty member and your schedule, you may also engage in research and/or read faculty research papers. Contact the faculty member as soon as assigned to devise a plan to gain familiarity with the group and research. Use the Faculty Interview Form to report contact with faculty members during this process.

During the rotations, you are also free to interact with other research groups, e.g., discuss the research and attend group meetings, etc.

Chemistry and chemistry-affiliated faculty members will present short talks on their research during Orientation. These talks will introduce you to the research group, but the talks should NOT serve as the sole basis for choosing rotation laboratories. You should consider the following questions in making the decision about which group to rotate with and ultimately join.

To aid in the process of choosing a group, here is a list of questions you may wish to consider asking before you make your decision:

• Is the group right for your personality? Is the group size comfort able for you? Is the group dynamic right for you? Are you comfortable with the people? (Keep in mind that groups change as students come and go; you will interact longest with students who are closest to you in terms of years in the program.)

- Does the faculty member communicate well with you? Do you like the faculty member's management style? Will you work successfully with this faculty member as your research advisor?
- Is the group right for you, scientifically? Does the research interest you? Are you excited about the group's approach to science? Are there several projects you would be eager to work on? Are there instruments or techniques that interest you? Is the faculty member accepting students on the project(s) in which you are interested?

Upon completion of laboratory rotations, you will submit your top three (3) choices for research groups (option to pick five) in a ranked order via the <u>Research Group Selection Form</u>. This form must be submitted before noon on November 10.

#### **Matching Process**

**Group matching initial step**: By the designated date (November 10), first-year students submit a ranked list of three to five (3-5) research advisor selections to the Graduate Student Coordinator (GSC).

#### Round 1:

- The GSC informs Principal Investigators (PIs) of interested students (with rankings unspecified).
- PIs rate interested students (within 24hours) as potentially acceptable (e.g., dependent on space or funding) or not acceptable. PIs can (should) rate more students as potentially acceptable than there are available positions.
- PIs indicate maximum number of openings in their group and any contingencies that may affect that number.
- Preliminary match is made between student's top choice and PI, if PI has ranked student potentially acceptable; facilitated by the Graduate Curriculum Committee (GCC); PI must ratify.
- PI commits- DONE (SUCCESSFUL MATCH)
- Unmatched students go to Round 2.

#### Round 2:

- PIs indicate a firm YES or NO for each remaining potentially acceptable student.
- Student gets his/her next highest ranked match if PI has indicated a firm YES; facilitated by the Graduate Curriculum Committee (GCC); PI must ratify.
- PI commits-DONE (SUCCESSFUL MATCH)
- Students are informed of matches within 1 week of submission of ranked Pl choices.

The path chair or the Graduate Curriculum Committee, all of whom will have knowledge of groups seeking students, will advise unmatched students remaining after Round 2. It is anticipated that this will be a small number of students. The major role of the Graduate Student Coordinator and the Graduate Curriculum Committee in this process is to communicate student and faculty preferences efficiently and to coordinate these preferences to result in optimal matches. Student preferences have priority. Matches are initiated by students and finalized by faculty.

## **Research Group Meetings**

| Professor           | Day                   | Time             | Location  | Notes  |
|---------------------|-----------------------|------------------|---|--|
| Berry, John         | Monday &<br>Wednesday | 9:00 - 11:00 am  | Chem 9341   | Starting September 4th   |
| Bertram, Timothy    | -                     |                  |   |  |
| Blackwell, Helen    | Friday                | 1:30-3:30 PM     | Chem 8335   |  |
| Boydston, A.J.      | Varies                |                  |   | Contact Prof. Boydston for up-to-<br>date information  |
| Buller, Andrew      |                       |                  |   |  |
| Burstyn, Judith     | Thursday              | 3:30 PM          | Chem 8335   |  |
| Cavagnero, Silvia   | Wednesday             | 4:30 PM          | Chem 8335   |  |
| Choi, Kyoung-Shin   | Thursday              | 5:00 PM          | Chem 3219   |  |
| Coon, Joshua        | Friday                | 10:00 – 11:30 AM | Genetics –<br>Biotechnological Center<br>425 Henry Mall |  |
| Ediger, Mark        |                       |                  |   |  |
| Forest, Katrina     | Thursday              | 11:30-1:00 PM    | Microbial Sciences<br>Building 6503                     | Please Email Prof. Forest directly before attending a meeting  |
| Fredrickson, Daniel | Friday                | 1:30-3:30 PM     | Chem 6337   |  |
| Garand, Etienne     |                       |                  |   |  |
| Ge, Ying            | Thursday              | 4:00 - 6:00 PM   | WIMR 8571   |  |
| Gellman, Samuel     | Wednesday             | 7:00 PM          | Chem 9341   |  |
|                     | Friday                | 3:00 PM          | Chem 9341   |  |
| Golden, Jennifer    | Tuesday               | 9:30 AM          |   | Contact Prof. Golden for approval to attend a group meeting (some projects discussed are not for "public information") |
| Goldsmith, Randall  |                       |                  |   |  |
| Gong, Sarah         |                       |                  |   |  |
| Gopalan, Padma      |                       |                  |   |  |
| Hamers, Robert      | Monday                | 4:30 - 6:30 PM   | Chem 3219   |  |
| Hermans, Ive        | Monday                | 10:00 AM         | Union South   |  |
| Jin, Song           | Tuesday               | 4:00 PM          | Chem 3219   |  |
| Li, Lingjun         | Wednesday             | 4:30 – 6:30 PM   | 1116 Rennebohm Hall                                     |  |
| Lynn, David         | Friday                | 9:00 AM          | Engineering Hall B651                                   |  |
| Martell, Jeffrey    | Wednesday             | 4:30 PM          | Chem 8132   |  |
| McMahon/Woods       | Thursday              | 3:30 PM          | Chem 3219   |  |
| Mecozzi, Sandro     |                       |                  |   |  |
| Nathanson, Gil      | <b>T</b> I !          | 0.00 44.00 444   | Cl 0254   |  |
| Pazicni, Sam        | Thursday              | 9:00 - 11:00 AM  | Chem 8351   |  |
| Pedersen, Joel      |                       |                  |   |  |
| Record, M. Thomas   | Tuesday               | 1.00 DN4         | Cham 920FF  |  |
| Schmidt, J.R.       | Tuesday               | 1:00 PM          | Chem 8305F  |  |
| Schwartz David      | Monday                | 5:00 PM          | Chem 8335   |  |
| Schwartz, David     |                       |                  |   |  |

## **Research Group Meetings**

| Sibert, Ned    |           |                 |                       |
|----------------|-----------|-----------------|-----------------------|
|                | Fui day.  | 2.20 4.20 DM    | Cham 4202             |
| Smith, Lloyd   | Friday    | 2:30 – 4:30 PM  | Chem 4202             |
| Stahl, Shannon | Tuesday   | 7:30 PM         | Chem 1315             |
|                | Saturday  | 10:00 AM        | Chem 3219 (Subgroups) |
| Stowe, Ryan    | Thursday  | 9:00 - 11:00 AM | Chem 8351             |
| Tang, Weiping  | Thursday  | 3:00 PM         | 1116 Rennebohm Hall   |
| Wang, Tina     | Tuesday   | 4:00-6:00 PM    | Chem 5209             |
| Weix, Dan      | Thursday  | 1:30 PM         | Chem 9341             |
| Wickens, Zach  | Monday    | 12:00 PM        | Chem 8335             |
|                | Thursday  | 6:00 PM         | Chem 9341             |
| Wright, John   | Wednesday | 3:30 – 5:30 PM  | Chem 3219             |
| Yang, Yang     |           |                 |                       |
| Yethiraj, Arun | Thursday  | 2:00 PM         | Chem 8305F            |
| Yoon, Tehshik  | Thursday  | 7:00 PM         | Chem 8335             |
| Yu, Lian       | Tuesday   | 9:00 AM         | Rennebohm Hall 4103   |
| Zanni, Martin  |           |                 |                       |

<sup>\*</sup>Please Note: Blank spaces indicate information was unavailable at the time these pages were complied. Please fill in information as presented to you during Orientation Week by faculty and group members.

#### Becoming a Successful Ph.D. Graduate

A successful Ph.D. graduate has carried out and disseminated original research that went to the edge of current knowledge in his or her field and pushed that edge out a little further.

How do I become a successful Ph.D. graduate?

- I become an expert in a particular area of chemistry.
- I design and implement an original research project.
- I communicate my knowledge effectively orally and in writing.
- I have the confidence and creativity to tackle new problems.
- I become an expert learner.

#### A Ph.D. graduate is an expert learner.

An expert learner has a sound foundation knowledge of the field, keeps abreast of important new developments through self-teaching, and makes connections to other fields. He or she has the tenacity, courage and humility needed to work at the low end of the learning curve over and over again. He or she eagerly faces the challenge of continually being a beginner working alongside expert learners in other fields.

Expert learners draw information from many sources. Expert learners do not rely on others to expand their knowledge: they are self-taught. Expert learners discover how to separate that which is known from that which is not, and how to define questions whose answers push forward the current state of knowledge.

Your job in graduate school is to become an expert learner.

#### Characteristics of a Ph.D. graduate

- Expertise in a domain
- Breadth of scientific knowledge
- Ability to find, define and solve problems
- Skill in oral, visual, and written communication
- Works well as a member of a team
- Confident and independent
- Creative and motivated

Future employers/postdoctoral mentors who hire you as a Ph.D. graduate expect you to lead others to solve new and important problems in your general area of expertise.

Note that chemistry Ph.D. programs generally do not provide explicit training in leadership or management. You may want to augment your chemistry training with other experiences that develop these skills. The UW-Madison Chemistry Department does provide opportunities for students to take on leadership roles in a variety of contexts. Although the department does not provide explicit leadership training, other organizations within the university do. You will have to seek out such opportunities.

Your most important job is to ensure that your graduate training meets your own needs.

#### **UW-Madison Chemistry Graduate Student Expectations**

- 1. The graduate student bears primary responsibility for the successful completion of his/her degree program. Accordingly, the student will demonstrate thoughtful commitment to success in coursework and research. The student is expected to maintain a high level of professionalism, self-motivation, curiosity, and to conduct his/her work with ethical integrity.
- 2. The student will be matched with a research advisor in November of the first semester of study. The student will make selections of potential matches by carefully studying the research of departmental faculty (and/or faculty outside of the department) and by initiating meetings with faculty members of interest to discuss the possibility of becoming a member of their research group. The student will participate in three research group rotations during the first semester, with an option of a fourth rotation, <chem.wisc.edu/content/chemistry-rotation-guidelines>. The student will determine the exact nature of the rotation through discussion with the research advisor during the first few days of the rotation. The student will fill out a form selecting his/her top three research groups (five, if necessary) he/she would like to join by early November. Student selections will be determined by the group-joining process (section 3.3.5 of the Student Handbook), and the students will be informed of their assignment by email.
- 3. The student will work closely with her/his research advisor to develop an appropriate research plan for her/his PhD dissertation. This includes establishing a timeline for each phase of the project. The student will strive to meet established deadlines and will provide the research advisor with regular updates on the results of research activities and experiments. The scheduling of the updates will be decided and agreed upon by the PI and student. As needed, the student will adapt the research plan in consultation with the research advisor.
- 4. The student will select a mentoring committee by the first semester of the second year. The student will work with the research advisor and mentoring committee members to fulfill the requirements for the PhD degree including completion of required coursework, filling out the minor agreement form, the second year thesis background exam (TBE), the third year research proposal (RP), the fourth-year seminar/meeting, and the PhD thesis and oral examination. The student will be responsive to advice and constructive feedback from the members of his/her mentoring committee.
- 5. The student, unless they have outside research funding, will be supported by the advisor with a mixture of Teaching Assistant (TA) and Research Assistant (RA) appointments. These appointments pay for tuition and a stipend but not for associated segregated fees or health insurance. The appointment of students to TA or RA is up to the advisor and will vary depending on the financial situation of the group, project deadlines, and established practice. Students should expect to TA at least two semesters in their PhD at UW-Madison.
- 6. The student will be knowledgeable of and comply with all policies and requirements of the Department of Chemistry, the Graduate School, and the University of Wisconsin. This includes reading the Graduate School Guide <a href="mailto:guide.wisc.edu/graduate/">guide.wisc.edu/graduate/</a>, Graduate School Academic Policies and Procedures <a href="mailto:grad.wisc.edu/academic-policies/">grad.wisc.edu/academic-policies/</a>, the department's PhD requirements <a href="mailto:chem.wisc.edu/content/phd-requirements">chem.wisc.edu/content/phd-requirements</a>, and the department's Student Handbook <a href="mailto:chem.wisc.edu/deptfiles/GradProgOffice/Handbook">chem.wisc.edu/deptfiles/GradProgOffice/Handbook</a>. The PhD thesis document must conform to the Graduate School's PhD Guidelines <a href="mailto:grad.wisc.edu/current-students/doctoral-guide/">grad.wisc.edu/current-students/doctoral-guide/</a>.
- 7. The student will comply with all group, Department of Chemistry, and institutional policies regarding safe and ethical laboratory practices. This includes attending Chem 607 (Laboratory Safety) in January of the first year; yearly group, departmental, and institutional safety training; and compliance with the requirements of this training. The student commits to use mandated personal protective equipment at all times in the laboratory.

- 8. The student will actively participate in all laboratory meetings, seminars, etc. that are a part of her/his educational program. This will generally include group research meetings, departmental seminars (1-3), and other special events.
- 9. The student will be a good lab citizen. The student will participate in shared laboratory responsibilities and will use lab resources carefully and frugally. The student will be respectful of all laboratory, departmental, and institutional personnel and will work collegially with these personnel.
- 10. The student and advisor will discuss policies on work hours, sick leave, and vacation. An outline of the Graduate School's benefits can be viewed at <a href="mailto:grad.wisc.edu/documents/appendix-2/">grad.wisc.edu/documents/appendix-2/</a> and the department's benefits in the <a href="mailto:Student Handbook">Student Handbook</a>, section 5.2. The student will comply with these policies and will notify the research advisor and fellow laboratory personnel well in advance of planned absences.
- on conduct 11. The Graduate School's policy responsible in can viewed research be at grad.wisc.edu/documents/responsible-conduct-of-research/. There are sections on professional conduct (section VII) and misconduct (section VIII) in the Student Handbook. The student will participate in departmental or institutional Responsible Conduct of Research Training and Teaching Assistant training as directed by the research advisor or departmental and institutional leadership.
- 12. The student will accurately document all research activities and experiments. All tangible research data, including digital files, should be carefully maintained by the student in consultation with the research advisor. The student should be aware that these records and data are the property of the institution and should be archived in accordance with institutional policies in consultation with the research advisor. It is the student's duty to provide data, in any form specified, when requested by the advisor.
- 13. The student and research advisor will discuss policies on authorship and attendance at professional meetings. The student will work with the research advisor to prepare research results for publication. The student is responsible to ensure that all published work to which they have contributed is accurate and in compliance with the ethical conduct of research.
- 14. Publication in reputable peer-reviewed journals is an important indication of the quality of scientific research. As such, the student will strive, in consultation with the research advisor, to conduct research that will meet this standard. It is generally expected that work leading to the PhD degree will be disseminated by publication in peer-reviewed journals.
- 15. The student accepts primary responsibility for the development of her/his career following the completion of graduate studies. The student will seek guidance from the research advisor, members of the mentoring committee, other mentors, and peers regarding resources available for the development of future career paths. The students are encouraged to be aware of and participate in university courses that can help them build skills for their future career paths.

#### Department of Chemistry - Ph.D. Requirements

View the <u>Graduate School's general guidelines</u> for completing your degree. The Chemistry Department's requirements for the Ph.D. are listed below.

#### First Year

- TA Training: First week before the beginning of fall and spring semesters.
- Rotations: Three research group rotations, completed by early November.
- <u>Coursework</u>: Required coursework varies by path (see below). All coursework is to be completed by the fall semester of the second year.
- Complete the minor agreement form in January.

#### Second Year

- Choose a mentoring committee by December 1. Rank 3-5 faculty on the committee preferences form to be on the mentoring committee.
- Thesis background examination (TBE): The examination will consist of a written report and an oral defense. The details about the exam are <a href="here">here</a> and the evaluation form is <a href="here">here</a>. The student brings the evaluation form to the oral exam.

#### Third Year

- Original Research Proposal Examination (RP): The examination will consist of a written proposal and an oral defense. The details are the exam are <a href="here">here</a>.
- Successfully passing all program requirements through the third year will complete the requirement for admission to candidacy.
- At least 3 weeks before oral defense, request warrant for Research Proposal <a href="here">here</a>. The student brings the warrant and evaluation form to the oral exam.

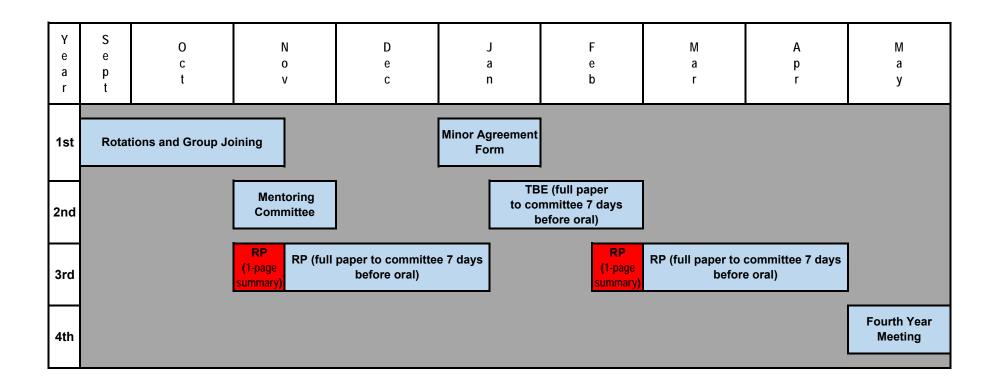
#### Fourth Year

Fourth-Year Mentor Committee Meeting: The Fourth-Year Mentoring Committee form should be completed
by the student and the research advisor and be provided to all of the mentoring committee members before
the meeting. The 4th year requirement includes a presentation of the student's research to the mentoring
committee (open to others, if desired), followed by a closed discussion of the results and future plans between
the student and committee.

#### Fifth Year

- Dissertation defense: The examination will consist of a written dissertation and an oral defense.
- Students who have not set a date for their dissertation defense by the end of their fifth year will meet with their mentoring committee members at least once per year until completion of the degree.
- At least 3 weeks before oral defense, request PhD Final Degree warrant here

## **Timeline of PhD Requirements**



#### MINOR AGREEMENT FORM INSTRUCTIONS

The purpose of the minor is to add breadth to a PhD major. Fill in the courses for the minor and get your advisor's signature. The Minor form must be filed with the Chemistry Graduate Office (Room 2108) half way through your coursework, which is typically before the spring semester of your first year. It is okay if some of the courses do not have grades.

#### **Basic Requirements**

A GPA of 3.0 must be maintained in the minor. All courses must be 300 level or above, taken after the bachelor's degree (or equivalent). You may not use 99x courses (research, seminar, and group meeting) for your minor. Chem 901 and Chem 607 cannot be used as the minor courses. Courses taken for pass-fail or audit may not be used. Courses with grades of S (satisfactory) or CR (credit) are acceptable. No core courses in your path can be counted toward the minor.

#### **Transfer Work**

If you are requesting to use courses taken at another university, for example, from a master's degree, fill out the "Waiver for Courses Taken at Other Institutions" form. Please submit these forms with the Minor form to the Chemistry Graduate Office.

#### \*OPTION A

Requires a minimum of 9 credits in only one department outside of chemistry (for example: Pharmacy or Chemical Engineering). See individual department for specific requirements, as many require more than 10 credits. Option A requires signatures of your major adviser and of the minor department chairperson.

#### \*\*OPTION B

Requires a minimum of 9 credits in two or more divisions/departments outside of the student's major Chemistry Path. Option B requires signatures of your major advisor, and of the major department associate chairperson\*. (\*This signature will be obtained through the Chemistry Graduate Office).

\*Ph.D. Minor Agreement Form

**Example Option A** 

Student Name (Last, First, Middle)

Student 10-digit I.D.Number

SMITH, JOHN ROBERT

900-123-1234

Name of Degree Major

Area of Specialization Within Major

**CHEMISTRY** 

**INORGANIC** 

Name of Minor Option (e.g., A = Pharmacy; B = Distributed)

Name of Advisor

A - Chemical Engineering

PAUL PROFESSOR

\*\*Ph.D. Minor Agreement Form

Example Option B

Student Name (Last, First, Middle)

Student 10-digit I.D.Number

SMITH, JOHN ROBERT

900-123-1234

Name of Degree Major

Area of Specialization Within Major

**CHEMISTRY** 

**ANALYTICAL** 

Name of Minor Option (e.g., A = Pharmacy; B = Distributed) Name of Advisor

**B - DISTRIBUTED** 

PAUL PROFESSOR

# Ph.D. Minor Agreement Form DEPARTMENT OF CHEMISTRY

| Date  |                |  |          |           |             |               |
|---|----------------|--|----------|-----------|-------------|---------------|
| Student Name  |                |  | Stude    | ent 10-di | git I.D. Nu | mber          |
| Last  | First          | Middle   |          |           |             |               |
| Name of Degree Majo   | r              |  | Area     | of Specia | alization W | /ithin Major  |
| Name of Minor Option  |                | rmacy; B = Distributed) side for instructions) | Nam      | e of Advi | sor         |               |
| LIST MINOR COURSES  Grade(s) will be inserte  Department Course | ed when cours  | ework has been compl                           | eted.    | to take t | toward the  | Minor.  Term  |
| Department Course   | e# Course      | [Example]                                      |          | Creuits   | Grade       | <u>reiiii</u> |
| Biochem. 601  | Protein &      | Enzyme Structure and                           | Function | 2         | Α           | Spr11         |
|   |                |  |          |           |             |               |
| Signature: Major Advis  | sor: Options A | 4 & B  |          | -         | Date        |               |
| Signature: Minor Depa   | artment: Optio | on A   |          | -         | Date        |               |
| Signature: Major Depa   | artment Assoc  | ciate Chairman: Option                         | В        | _         | Date        |               |

#### **Advising and Selection of Mentoring Committee**

During the first semester in the Ph.D. graduate program at UW-Madison Department of Chemistry, the path chair serves as the advisor to the incoming graduate students. This relationship continues until the Ph.D. student joins a research group in mid-November, after which the PI of the research group serves as the student's **research advisor**. The path chair continues to advise the students who need longer to join a research group.

The student is responsible for fulfilling the departmental and graduate school requirements for the Ph.D. degree. The research advisor shares responsibility for ensuring the fulfillment of these requirements. The research advisor's responsibilities begin at the time of the advisor's agreement to accept the student into their group. In addition to supervising the research, the research advisor is expected to guide the student on course selections, examinations, independent research pertinent to the student's general development as a scientist, and any other matters affecting the student's general progress toward a degree.

A student also gets advice and feedback from a **mentoring committee** (three faculty members including the research advisor), which administers the second-year TBE, gives feedback on the third-year RP, contributes to any subsequent requirements, and makes up part of the Ph.D. dissertation committee. The research advisor <u>is not</u> the chair of the mentoring committee. The mentoring committee chair is selected by Graduate Program staff, with guidance from the student (see below).

The faculty members on the mentoring committee are an important resource for the graduate student for scientific and professional advice and second opinions. When a student is applying for fellowships and for future employment, the student typically needs 2-3 recommendation letters; developing a mutual familiarity with the faculty on the student's mentoring committee is a good way to build these relationships, resulting in more detailed, informed recommendations.

No later than December 1 of the fall semester of their second year, each student indicates several ranked choices of faculty on the committee preference form to be on their mentoring committee and submits this list to Graduate Program staff. Faculty from outside of the department can be on the mentoring committee (e.g. someone possessing expertise relevant to the research). Faculty not affiliated with Chemistry must be pre-approved by the research advisor. Before the spring semester of the second year, Graduate Program staff makes the mentoring committee assignments based on the student preferences with the approval of the faculty.

Students and their mentoring committee members will meet in the student's 2nd year for the TBE (Thesis Background Exam) and in the 3<sup>nd</sup> year for the RP (Research Proposal). In the 4<sup>th</sup> year, students will meet with their mentoring committee members for the 4<sup>th</sup> Year Mentoring Committee Meeting. This important meeting is designed to provide a summary of progress and to establish a timeline for completion of work required the PhD degree. The Unified 4<sup>th</sup> Year Mentoring Committee Form should be completed by the student and the research advisor and be provided before the meeting to all mentoring committee members and to graduate program staff. The 4<sup>th</sup> year requirement includes a presentation of the student's research to the mentoring committee (open to others, if desired), followed by a closed discussion of results and plans between the student and committee members.

Normally, the Ph.D. thesis will be completed and defended by the end of the 5th year or soon after. In the event that more time is needed, the mentoring committee will convene during the 5th and any subsequent years for a thesis planning meeting, during which the timeline and objectives for finishing the thesis will be reviewed.

# THESIS BACKGROUND EXAM (TBE) REQUIREMENTS

#### **Written Document**

- Project title and overview (1 page)
- Student CV/resume (1-2 pages)
- Research plan (max of 4,500\* words, exclusive of figures and schemes)
  - Hypotheses and/or research objectives (suggested 500 words)
  - Background & significance and summary & discussion of research progress (suggested 3,000 words)
  - Future plans (suggested 1,000 words)
- References (no page limit)
- Supporting information (e.g., experimental or computational protocols, spectral or crystallographic data, appendices; no page limit)

<u>Oral Exam</u>: Students present a 20-25 minute PowerPoint presentation in an open session, followed by a closed exam before their mentoring committee.\*\*

<u>Timing:</u> TBE to be completed during January through February of the second year. Students schedule the date and time of the TBE oral exam with their mentoring committee and provide each member of the committee with the written exam 7 days before the oral exam.

\*500 words is ~1-page, single-spaced, 11 or 12 pt font. \*\*3-member mentoring committee is decided in fall of second year.



## Thesis Background Exam: Evaluation Form

Students please fill out this form and give it to the committee members at your oral exam. After the oral exam, please give a copy to the path coordinator and graduate student coordinator.

| Student Name:         |                      | Signature:  |
|-----------------------|----------------------|---|
| Committee Member:     |                      | Signature:  |
| Date of Exam:         |                      | For Pass, Circle one:   |
|                       | Conditional Pass     | <ul><li>3 = Meets Program Expectations</li><li>5 = Exceeds Program Expectations</li></ul> |
|                       | Fail                 | 1 = Does Not Meet Program Expectations  |
| If a special assignme | nt is made, please s | supply the following information:   |
| Due date for a        | ssignment            |   |
| Name of facult        | v member who will    | grade the assignment  |

## **Rating and Comments:**

| 3 = Me | ees Not Meet Program Expectations eets Program Expectations ceeds Program Expectations |   |   |   |
|--------|--|---|---|---|
| 1.     | Knowledge of background material Comments:   | 1 | 3 | 5 |
| 2.     | Quality of oral presentation Comments:   | 1 | 3 | 5 |
| 3.     | Research design Comments:  | 1 | 3 | 5 |
| 4.     | Quality of response to questions Comments:   | 1 | 3 | 5 |
| 5.     | Quality of written report Comments:  | 1 | 3 | 5 |
| 6.     | Other comments:  |   |   |   |

# ORIGINAL RESEARCH PROPOSAL (RP) REQUIREMENTS

#### **Written Document**

- Topic cannot be too close to the research in your group.
- Cover page with title, student and advisor names (1 page)
- Student CV/resume (1-2 pages)
- Abstract or summary (1 page)
- Research plan (max of 3000\* words, exclusive of figures and schemes)
  - Hypotheses and/or research objectives
  - o Background & significance
  - o Experimental design & methods
- References (no page limit)

<u>Oral Exam:</u> Student presents in a closed session a 20-25 minute PowerPoint presentation, expecting interruptions for questions. The defense committee should include the mentoring committee\*\* plus other interested faculty.

#### Timing:

- It is expected that the student will complete the RP by the end of the spring semester in their third year.
- The RP can be defended in the fall, spring, or both, if necessary.
- In the fall, a 1-page summary of the RP is submitted to the advisor and/or RP committee by November 15. The 1-page summary is reviewed and given full approval (with comments) or denied by the advisor and/or RP committee. The student gives the written exam to the RP committee 7 days prior to the scheduled RP oral exam, which must be completed by January 15.
- In the spring, a 1-page summary of the RP is submitted to the advisor and/or RP committee by March 15. 1-page summary is reviewed and given full approval (with comments) or denied by the advisor and/or RP committee. The student gives the written exam to the RP committee 7 days prior to the scheduled RP oral exam, which must be completed by May 15.

<sup>\*500</sup> words is ~1-page, single-spaced, 11 or 12 pt font \*\*3-member mentoring committee is decided in fall of second year



### **Research Proposal Exam: Evaluation Form**

Students please fill out this form and give it to the committee members at your oral exam. After the oral exam, please give the completed form to the path coordinator. *In addition, bring the prelim warrant to the oral exam and return the signed warrant to the graduate student coordinator.* 

| Student Name:           |                       | Signature:                             |  |  |
|-------------------------|-----------------------|--|--|--|
| Committee Member:       |                       | Signature:                             |  |  |
| Committee Member:       |                       | Signature:                             |  |  |
| Committee Member:       |                       | Signature:                             |  |  |
| Committee Member:       |                       | Signature:                             |  |  |
|                         |                       |  |  |  |
| Date of Exam:           |                       |  |  |  |
| Grade:                  | _ Pass:               | For Pass, Circle one:                  |  |  |
|                         |                       | 3 = Meets Program Expectations         |  |  |
|                         |                       | 5 = Exceeds Program Expectations       |  |  |
| ·                       | _ Conditional Pass    |  |  |  |
|                         | _ Fail                | 1 = Does Not Meet Program Expectations |  |  |
| If a special assignment | is made, please suppl | y the following information:           |  |  |
| Due date for as         | ssignment             |  |  |  |
| Name of facult          | v member who will gr  | ade the assignment                     |  |  |

## **Rating and Comments:**

| 1 = Doe | s Not Meet Program Expectations   |   |   |   |
|---------|---|---|---|---|
| 3 = Me  | ets Program Expectations  |   |   |   |
| 5 = Exc | eeds Program Expectations   |   |   |   |
| 1.      | Scientific merit: Novelty & significance Comments:  | 1 | 3 | 5 |
| 2.      | Research design: Will it work? Comments:  | 1 | 3 | 5 |
| 3.      | Appropriateness of project scope:  Can this project be completed by 1 person in 2 years?  Comments: | 1 | 3 | 5 |
| 4.      | Quality of oral presentation and response to questions<br>Comments:                                 | 1 | 3 | 5 |
| 5.      | Quality of written report<br>Comments:  | 1 | 3 | 5 |
| 6.      | Other comments:   |   |   |   |

## The University of Wisconsin-Madison

#### The Graduate School

### Warrant for Preliminary Examinations

Student Name 9073951111 - 0005541111

| Major:   |            | Chemistry - G153                |
|--|------------|---------------------------------|
| Subplan:   |            |                                 |
| Minor:   |            | DISTRIBUTED                     |
| Date minor requirements completed:   |            |                                 |
| Minor approval signature:  |            |                                 |
| k Option A signature of appropriate objartmental person.<br>F Option 8 signature of major department craimperson.) |            |                                 |
| Second Minor:  |            |                                 |
| Date second minor requirements completed:  |            | 9                               |
| Second minor approval signature:   |            |                                 |
| K Oction A Signature of අනුropriate රදාය ෆෝසේට person.<br>" රදුවාග පි Signature of region රදාය ලාක්ක රාධ්ය පාරයා.) |            |                                 |
| Date of successful completion of preliminary examination:  |            |                                 |
| Committee Member Names   |            | Signatures of Committee Members |
| Weix,Daniel John   | Advisor    | =                               |
| Schomaker, Jennifer  |            | <del></del>                     |
| Berry, John  |            |                                 |
|  |            |                                 |
|  |            |                                 |
| Date major requirements (except dissertation)  | completed: |                                 |
| Signature of major department chairperson:   |            |                                 |

### **Fourth-Year Committee Meeting**

In May of their 4<sup>th</sup> year, students will meet with their mentoring committee member for their 4<sup>th</sup> Year Mentoring Committee Meeting. This important meeting is designed to provide a summary of progress and to establish a timeline for completion of work required by the PhD degree. The 4<sup>th</sup> Year Committee Meeting Form should be completed by the student and the research advisor and be provided before the meeting to all mentoring committee members. The 4<sup>th</sup> year requirement includes a brief presentation (10-15 minutes) of the student's research to the mentoring committee (open to others, if desired), followed by a closed discussion of the results and future plans between the student and committee members.

Normally, the PhD dissertation will be completed by the end of the 5<sup>th</sup> year or soon after. In the event that more time is needed, the mentoring committee will convene in May of the 5<sup>th</sup> year and any subsequent years for a dissertation planning meeting, during which the timeline and objectives for finishing the dissertation will be discussed.

#### UNIFIED FOURTH (AND SUBSEQUENT) YEAR MENTORING COMMITTEE MEETING FORM

Please complete this form in consultation with your thesis advisor. Attach pages if necessary. When finished, both the student and advisor sign next to their printed name. The student gives a copy of the completed report to Mentoring Committee members, the Chemistry Graduate Office – (Arrietta Clauss - Room 2108) and Graduate Program staff prior to the meeting.

| Student Name:   | Signature:       |
|---|------------------|
| Thesis Advisor:   | Signature:       |
| Date:   |                  |
| 1. Tentative title of Ph.D. thesis:                       |                  |
| 2. Anticipated thesis defense date:                       |                  |
| 3. Significant work completed to date:                    |                  |
|   |                  |
| 4. Work that remains to be completed:                     |                  |
| 5. Outline of thesis:                                     |                  |
|   | and the state of |
| 6. List the papers you expect to publish as a result of y | our thesis work: |
|   |                  |
| 7. Timeline for completion of Ph.D.:                      |                  |
| 8. Challenges anticipated (if any):                       |                  |
|   |                  |
| 9. Post-graduation plans (job, postdoc, etc.)             |                  |
| LO. Other comments:                                       |                  |

PHD FINAL

### The University of Wisconsin-Madison

#### The Graduate School

Candidate for the degree of PHD

Student Name

9069391111 - 0005121111

Major: Chemistry - G153

Subplan:

Minor: GMIN254 - Distributed

Second Minor:

We, the undersigned, report that as a committee we have examined Xxxx Xxxx Xxxxx on \_\_\_\_\_\_, and upon the work done in the subjects named and upon the dissertation presented by the candidate we find that the candidate may properly be admitted to the degree of Doctor of Philosophy.

## (By signing this warrant I am confirming that I have also approved this student's UMI abstract.)

| Committee Member Names              |         | Signatures of Committee Members |        |
|-------------------------------------|---------|---------------------------------|--------|
| Goldsmith,Randall H                 | Advisor | -                               | Reader |
| Zanni, Martin                       |         |                                 | Reader |
| Wright, John                        |         | -                               | Reader |
| Kats, Mikhail                       |         | 2-                              | Reader |
|                                     |         | ·                               | _      |
|                                     |         | <del>-</del>                    |        |
|                                     |         | -                               |        |
| I dissent from the following report |         | ·                               | _      |

Dissertation approved by the Graduate School on:

# DEPARTMENT OF CHEMISTRY GRADUATE STUDENT CHECK-OUT FORM

| NAME:  |                                 |                           |                              |
|--|---------------------------------|---------------------------|------------------------------|
| (Last)   | (First)                         | (Middle)                  |                              |
| Please have the individuals in outstanding resources and th                    |                                 |                           | to verify that there are no  |
| Computer Support, Rm. 9307 — Glas  |                                 | Shop, Rm. B201            | Electronics Shop, Rm. 2227   |
| —— Research Stockroom, R   | m. 5222 Libraria                | an, Rm. 2361              | Machine Shop, Rm. S307       |
| Major Professor or Sup   | pervisor _                      | Building Manager, R       | m. 1227 (Return Keys)        |
| Senior Chemical Hygiene Officer for group Mail Room, Rm. 1124 (Forwarding addr |                                 |                           | 4 (Forwarding address)       |
| Division Coordinator   | tor Shipping/Receiving, Rm 1237 |                           |                              |
| Payroll, Rm. 1120  | Purchasing, Rm 1123             |                           |                              |
| Exit Interview with Dr.  | Matt Sanders, Rm 1126. (A       | Appt. recommended. Pho    | ne: 608/263-4693 <b>)</b>    |
| Date depositing your thesis:   |                                 | Thesis Advisor:           |                              |
| Last day working:  |                                 |                           |                              |
| For our Records: This inform list and for employment surve                     |                                 | II purposes, updates, and | l the Badger Chemist mailing |
| Official Dissertation Title: _   |                                 |                           |                              |
| New Mailing Address:   |                                 |                           |                              |
|  | City                            | State                     | Zip                          |
| Permanent email address:   |                                 |                           |                              |
| Would you like to receive the  | Chemistry Alumni eNewsle        | etter? Yes: N             | 0:                           |
| Date of Birth:   |                                 |                           |                              |
| Your next position (if Post-doc  | c please list institution, depo | artment and Primary Rese  | earch Group):                |
| Job Title:   |                                 | Туре:                     |                              |
| Company/Institution:   |                                 | Location:                 |                              |
| Pay Rate:  | Signing Bonus:                  | Relocation Amount:        |                              |

Please return completed form to the Graduate Program Coordinator, Rm. 2108