

## **WEEK 5–11 RESEARCH PLAN**

### **MEET WITH YOUR MENTORS TO EVALUATE YOUR RESEARCH PROGRESS**

**DUE: FRIDAY, JUNE 17, 11:59PM**

#### **SCHEDULE THE MEETING WITH YOUR MENTORS**

Plan a time to meet with your faculty advisor (and your graduate mentor if possible) to discuss the following items listed below. (Print out this document, or bring an electronic copy, and bring it with you to your meeting.)

#### **SUBMISSION ON BLACKBOARD**

Record your responses to the questions and discussion items listed below in a *typed* document. Note that for all questions that say “discuss,” a summary of this discussion with your mentors must be provided as part of your typed response for this assignment. Save your document as either a Word or PDF file using the file name structure:

“LastName\_FirstName\_MeetMentors2”

and submit it to your SURF GA via Blackboard.

In addition to answering the numbered items below, **you must also complete the Symposium Qualtrics Survey** (located on Blackboard on the “Assignments, Seminars, and Activities” page).

#### **MEETING QUESTIONS AND DISCUSSION ITEMS**

1. Discuss how your research is progressing with your mentor(s). What are the major difficulties? Do you need anything to continue your research progress, such as information, access to software, and/or any other kind of help? [Now is a good time to get some advice if you haven’t already!]
2. Discuss how you have been **documenting and communicating** your research progress to your faculty advisor and/or graduate mentor. Is it successful? Any changes needed?
3. Have you been able to meet regularly with your mentors? [If you feel lost in your project, now is a good time to discuss getting more one-on-one time with your mentor(s), and/or schedule regular meeting times if you haven’t already.]
4. **Fill out the Research Project Objectives Worksheet** (pp. 3–4) with your mentor(s). On this worksheet, you should **state the key research milestones** (goals or tasks) **in order to finish your project successfully within the rest of the program** (weeks 5–11). To help in your research planning, the worksheet also provides a list of your SURF goals/tasks for each week.

Note: Ideally you will meet with your graduate mentor each week to ensure that the research goals/tasks that you list on this worksheet are being completed on schedule.

5. Discuss your career goals with you professor (or graduate mentor if your professor is unavailable), and ask them if/how obtaining a graduate degree will be beneficial (or essential) to achieve your goals.

6. The following questions address the format in which you will present your research at the SURF symposium:

- a) Would *your professor* prefer you give an oral (PowerPoint) presentation or a poster presentation? No preference?
- b) Which would *you* prefer, an oral presentation or a poster presentation? No preference?
- c) What is the title of your project? (A current working title will suffice.)
- d) What are some keywords for your project? (List at least three.)
- e) Which theme best describes your research area?

Energy

Materials

Structures

Health

Water

Infrastructure

Sustainability

Sensing

Biotechnology

Nanotechnology

Earth and Space Science and Engineering

Transportation

Simulation

None of the above (please suggest a general theme that describes your research)

7. At the end of SURF you will submit a technical paper, the first draft of which will be due in Week 6 (on 6/30). Your paper must be written in the style and format of a conference paper or journal article in your field. [That is, unless your professor prefers some other format, in which case you will use whichever format your professor specifies.]

Discuss with your professor what conference or journal format would best be suited for your project. [If you were to submit your research to a technical conference or journal, what conference or journal does your professor think would be most appropriate?] It's likely that more than one format will be discussed; however, you must choose *one* to use for your final technical paper. In your response to this discussion item, state the name of the conference or journal format chosen.

## SURF RESEARCH PROJECT OBJECTIVES WORKSHEET (RE-EVALUATION OF WEEKS 5–11)

<b>Week 5</b>  June 20–24	<b>SURF Goals:</b> <ul style="list-style-type: none"> <li>• Draft an abstract appropriate for a journal article or conference paper</li> <li>• Write the “Introduction” section of your technical paper. Will likely include your literature review (depending on format used).</li> </ul>
	<b>Research Goals:</b>
<b>Week 6</b>  June 27– July 1	<b>SURF Goals:</b> <ul style="list-style-type: none"> <li>• Complete a draft of your technical paper for the Peer-Review Workshop (Thursday, 6/30) by writing the Abstract, Introduction, Methods, and References sections in the style and format of a professional technical conference or journal paper in your field.</li> </ul>
	<b>Research Goals:</b>
<b>Week 7</b>  July 4–8	<b>SURF Goals:</b> <ul style="list-style-type: none"> <li>• Complete the first draft of your technical paper with feedback from your mentors and the peer review workshop incorporated into your draft.</li> <li>• Determine how to construct your symposium presentation. (How will the flow of the story will go?)</li> </ul>
	<b>Research Goals:</b>
<b>Week 8</b>  July 11–15	<b>SURF Goals:</b> <ul style="list-style-type: none"> <li>• Create a draft of your oral presentation slides or poster.</li> <li>• Establish a plan for wrapping up your summer research.</li> </ul>
	<b>Research Goals:</b>

(Worksheet continued on next page)

<p><b>Week 9</b></p> <p>July 18–22</p>	<p><b>SURF Goals:</b></p> <ul style="list-style-type: none"> <li>• Finalize your abstract and, <u>with professor's approval</u>, upload to Purdue e-Pubs.</li> <li>• Identify the next steps (after SURF) that will allow you to pursue your research interests.</li> <li>• Continue to write your final technical paper (Results, Discussion, and Conclusion sections).</li> </ul> <p><b>Research Goals:</b></p>
<p><b>Week 10</b></p> <p>July 25–29</p>	<p><b>SURF Goals:</b></p> <ul style="list-style-type: none"> <li>• Finalize research presentation (poster or oral) for Symposium, and PRACTICE! [Posters must be printed by Friday of this week.]</li> <li>• Continue to prepare your final technical paper.</li> </ul> <p><b>Research Goals:</b></p>
<p><b>Week 11</b></p> <p>August 1–5</p>	<p><b>SURF Goals:</b></p> <ul style="list-style-type: none"> <li>• Present your research at the SURF Research Symposium on August 4.</li> <li>• Wrap up SURF requirements.</li> <li>• Update final abstract and technical paper with work done in Week 11.</li> <li>• Submit final draft of technical paper to SURF and your lab mentors.</li> <li>• Add SURF experience to your resume.</li> <li>• Check-out of your lab.</li> </ul> <p><b>Research Goals:</b></p>