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PREVIEW INSTRUMENT URSSA MASTER - REVIEW COPY, ORIGINAL

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- **Status:** Scheduled
- **Instructor:** Sandra Laursen
- **Institution:** U Colorado Boulder
- **Department:** E&ER
- **Course:** URSSA MASTER - review copy
- **Semester:** original
- **Description:** Complete version, for review by users. Sections 1-10 are locked (required); sections 11-30 are optional.
- **Survey start date:** 2010-12-01
- **Survey end date:** 2010-12-01
- **Visibility:** Private

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Instructions to students:

Teachers value students' feedback and take it into account when improving their courses. Please be as precise as you can in your answers. Please choose "not applicable" for any activity you did not do. You may find one or more questions at the end of each section that invite an answer in your own words. Please comment candidly, bearing in mind that future students will benefit from your thoughtfulness. Remember that this is an anonymous survey: your teacher will never know what any individual student has written.

You may see the following note next to some questions:

"D" — Department question. The department head can view the responses to these questions.

Gains in THINKING AND WORKING LIKE A SCIENTIST: APPLICATION OF KNOWLEDGE TO RESEARCH WORK.

1. How much did you GAIN in the following areas as a result of your most recent research experience?	no gains	a little gain	moderate gain	good gain	great gain	not applicable
1.1 Analyzing data for patterns.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.2 Figuring out the next step in a research project.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.3 Problem-solving in general.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.4 Formulating a research question that could be answered with data.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.5 Identifying limitations of research methods and designs.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.6 Understanding the theory and concepts guiding my research project.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.7 Understanding the connections among scientific disciplines.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
1.8 Understanding the relevance of research to my coursework.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

PERSONAL GAINS RELATED TO RESEARCH WORK

2. How much did you GAIN in the following areas as a result of your most recent research experience?	no gains	a little gain	moderate gain	good gain	great gain	not applicable
2.1 Confidence in my ability to contribute to science.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.2 Comfort in discussing scientific concepts with others.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.3 Comfort in working collaboratively with others.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.4 Confidence in my ability to do well in future science courses.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.5 Ability to work independently.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.6 Developing patience with the slow pace of research.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.7 Understanding what everyday research work is like.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2.8 Taking greater care in conducting procedures in the lab or field.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Gains in SKILLS

3. How much did you GAIN in the following areas as a result of your most recent research experience?	no gains	a little gain	moderate gain	good gain	great gain	not applicable
3.1 Writing scientific reports or papers.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.2 Making oral presentations.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.3 Defending an argument when asked questions.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.4 Explaining my project to people outside my field.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.5 Preparing a scientific poster.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.6 Keeping a detailed lab notebook.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.7 Conducting observations in the lab or field.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.8 Using statistics to analyze data.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.9 Calibrating instruments needed for measurement.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.10 Working with computers.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.11 Understanding journal articles.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.12 Conducting database or internet searches.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3.13 Managing my time.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

The following questions ask about your overall research experience and about any changes in your attitudes or behaviors as a researcher.

4. During your research experience HOW MUCH did you:	none	a little	some	a fair amount	a great deal	not applicable
4.1 Engage in real-world science research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4.2 Feel like a scientist.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4.3 Think creatively about the project.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4.4 Try out new ideas or procedures on your own.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4.5 Feel responsible for the project.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4.6 Work extra hours because you were excited about the research.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

- 4.7 Interact with scientists from outside your school.
- 4.8 Feel a part of a scientific community.

These questions ask about your research experience.

- | 5. Please rate the following: | Not applicable | Poor | Fair | Good | Excellent |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 5.1 My working relationship with my research mentor | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5.2 My working relationship with research group members. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5.3 The amount of time I spent doing meaningful research. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5.4 The amount of time I spent with my research mentor. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5.5 The advice my research mentor provided about careers or graduate school. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5.6 The research experience overall. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 5.7 Please comment on any of these aspects. | | | | | |

Research experience

- | 6. As part of my most recent research experience... | yes | no |
|--|-----------------------|-----------------------|
| 6.1 I presented a talk or poster to other students or faculty | <input type="radio"/> | <input type="radio"/> |
| 6.2 I presented a talk or poster at a professional conference | <input type="radio"/> | <input type="radio"/> |
| 6.3 I attended a conference | <input type="radio"/> | <input type="radio"/> |
| 6.4 I wrote or co-wrote a paper that was published in an academic journal | <input type="radio"/> | <input type="radio"/> |
| 6.5 I wrote or co-wrote a paper that was published in an undergraduate research journal | <input type="radio"/> | <input type="radio"/> |
| 6.6 I will present a talk or poster to other students and faculty | <input type="radio"/> | <input type="radio"/> |
| 6.7 I will present a talk or poster at a professional conference | <input type="radio"/> | <input type="radio"/> |
| 6.8 I will write or co-write a paper to be published in an academic journal. | <input type="radio"/> | <input type="radio"/> |
| 6.9 I will write or co-write a paper to be published in an undergraduate research journal. | <input type="radio"/> | <input type="radio"/> |
| 6.10 I won an award or scholarship based on my research | <input type="radio"/> | <input type="radio"/> |

Research experience

- | 7. Rate how much you agree with the following statements. | Strongly disagree | Disagree | Agree | Strongly agree |
|--|-----------------------|-----------------------|-----------------------|-----------------------|
| 7.1 Doing research confirmed my interest in my field of study. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

- 7.2 Doing research clarified for me which field of study I want to pursue.
- 7.3 My research experience has prepared me for advanced coursework or thesis work
- 7.4 My research experience has prepared me for graduate school.
- 7.5 My research experience has prepared me for a job.

Research experience

- | 8. Compared to your intentions BEFORE doing research, HOW LIKELY ARE YOU NOW to: | not more likely | a little more likely | somewhat more likely | much more likely | extremely more likely | not applicable |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 8.1 enroll in a Ph.D. program in science, mathematics or engineering? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8.2 enroll in a masters program in science, mathematics or engineering? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8.3 enroll in a combined M.D/Ph.D program | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8.4 enroll in medical or dental school? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8.5 enroll in a program to earn a different professional degree (i.e. law, veterinary medicine, etc.) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8.6 pursue certification as a teacher? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8.7 work in a science lab? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| 8.8 Other. Please state your intended degree and, compared to your intentions BEFORE doing research, HOW LIKELY YOU ARE NOW to enroll in a graduate program leading to an advanced degree. | | | | | | |

9. Future career plans

9.1 How did your research experience influence your thinking about future career and graduate school plans? Please explain.

10. Other gains

10.1 Did you make other gains from doing research that we didn't mention? If so, please briefly describe these.

The following questions ask about aspects of the research program.

- | 11. How satisfied were you with the following aspects of the research program? | Not applicable. | Very dissatisfied | Somewhat dissatisfied | Somewhat satisfied | Very satisfied |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 11.1 The application process. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

- 11.2 Information available to help me choose a research project.
- 11.3 Ease in locating a research mentor
- 11.4 Ease in securing a research position.
- 11.5 Lab or field equipment.
- 11.6 Support and guidance from program staff.
- 11.7 Support and guidance from my research mentor.
- 11.8 Support and guidance from other research group members.
- 11.9 Research group meetings.
- 11.10 Financial support.
- 11.11 Field trips.
- 11.12 Group social activities.

Training Sessions

12. How MUCH did the following activities support your learning? Did not do this activity Not at all A little A good amount A great deal
- 12.1 Workshop(s) on science writing and presentation.
 - 12.2 Training in library/internet/database search methods.
 - 12.3 Safety training
 - 12.4 Ethics seminar(s)
 - 12.5 Training in human or animal subjects regulations.

Institutional Review Board

13. IRB. Not applicable/don't know Yes. No
- 13.1 Were you required to get Institutional Review Board (IRB) certification to conduct research?
14. What year are you in college? Freshman/rising sophomore Sophomore/rising junior Junior/rising senior. Senior Other
- 14.1 I am a:

How did you find out about research opportunities on campus?

15. I found out about research opportunities from: yes no
- 15.1 I knew this institution offered research opportunities to undergraduates before coming here
 - 15.2 in class
 - 15.3 an academic advisor
 - 15.4 an announcement (flyer, poster, email, website, etc.)

15.5 a presentation given by professors or students about their research

15.6 Other (please specify):

What motivated you to do research?

16. I WANTED TO DO RESEARCH TO: (select all that apply)

yes

no

16.1 explore my interest in science

16.2 gain hands-on experience in research

16.3 clarify which field I wanted to study

16.4 clarify whether graduate school would be a good choice for me

16.5 clarify whether I wanted to pursue a science research career

16.6 have a good intellectual challenge

16.7 work more closely with a particular faculty member

16.8 participate in a program with strong reputation

16.9 get good letters of recommendation

16.10 enhance my resume

16.11 Other (please specify)

How much do you agree with the following statements?

17. Agree/disagree

Strongly disagree

Disagree

Agree

Strongly agree

17.1 I chose this college./university because it offers undergraduate research opportunities.

17.2 I chose this college/university because of a specific research program.

GRADUATE SCHOOL AND CAREER ACTIVITIES

18. How MUCH did the following program activities help clarify your career plans?

Did not do this activity Not at all A little A good amount A great deal

18.1 Session(s) offered on graduate school programs or careers.

18.2 Information provided by the career counseling center.

18.3 Field Trips

18.4 Please comment on any of these activities.

19. Academic year research

	Never participated	1 semester	2 semesters	3 semesters	4 or more semesters
19.1 How many times have you participated in ACADEMIC YEAR research?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

20. Summer research

	Never participated	1 summer	2 summers	3 summers
20.1 How many times have you participated in SUMMER research?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

21. Research experience

	Part of academic year	All of academic year	During summer: 5 weeks or less	Summer: 6-8 weeks	Summer: 9 weeks or more.
21.1 For your most recent research experience, how long did you do research?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Activities

22. Research activities

	1-5 hours	6-10 hours	11-15 hours	16 - 20 hours	21 or more hours
22.1 How many hours per week did you work at research-related activities in your most recent research experience?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

23. Hours with mentor

	None	1 hour	2 hours	3 hours	4 or more hours
23.1 On average, how many hours per week did you spend talking with your most recent research mentor?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

24. Stipend

	Not at all important	Slightly important	Important	Very important
24.1 How important was the stipend or money you were paid in allowing you to do research?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

25. Researcher

	yes	no
25.1 Were you a "visiting researcher" -- doing research away from your home institution?	<input type="radio"/>	<input type="radio"/>

26. International student

	yes	no
26.1 Are you an international student?	<input type="radio"/>	<input type="radio"/>

Feedback about Research Program

27. Feedback

27.1 What would have made your research experience better?

27.2 What would improve the undergraduate research program, overall?

Demographics

28. Gender

Male Female Your choice label here...

28.1 What is your gender?

Demographics

29. What is your race? (choose all that apply)

yes no

29.1 American Indian

29.2 Asian

29.3 Black or African American

29.4 Native Hawaiian or other Pacific Islander

29.5 White

29.6 Other (please specify)

Demographics

30. What is your ethnicity?

yes no

30.1 Hispanic or Latino/Latina