

Landry Lab Undergraduate Research Grading Rubric

		Exemplary (90-100%)	Accomplished (80-89%)	Developing (70-79%)	Unsatisfactory* (0-69%)	Points
Effort (25 pts)	Hours actively engaged in research per week (25 pts) 1 credit translates to 4 hours	<i>100% research credit hours</i>	<i>75% research credit hours</i>	<i>50% research credit hours</i>	<i>≤25% research credit hours</i>	
Organization and Lab Habits (25 pts)	Completes safety trainings in a timely manner, performs work safely, and keeps clean workspace (15 pts)	<i>Complete safety training within 1 week of semester start, ask questions if you are unsure of how to proceed, keep workspaces clean, no major safety infractions</i>	<i>Complete safety training within 2 week of semester start, sometimes messy workspaces, no major safety infractions</i>	<i>Complete safety training >3 week of semester start, messy workspaces, no major safety infractions</i>	<i>Safety violation due to negligence or intention</i>	
	Maintains good documentation practices, and keeps files and samples in an organized, accessible condition (5 pts)	<i>Has good handwritten or typed documentation of work in lab notebook, good sample organization, and has left work in a readable and transferrable condition for incoming researcher</i>	<i>Has good lab notebook documentation of work, is slightly disorganized with sample/files</i>	<i>Only has few documentation of work, is not organized with sample/files</i>	<i>Did not keep any documentation of work, and has left work in difficult condition for incoming researcher</i>	
	Is helpful, respectful, open to feedback, and contributes to a positive environment in the lab (5 pts)	<i>Can receive feedback/ guidance from mentors and researchers in the group and immediately incorporate it, communicates concerns and questions, is respectful in lab area</i>	<i>Can receive feedback and guidance from mentors but is somewhat resistant to altering subsequent behavior, communicates some concerns and questions, is respectful in lab area</i>	<i>Struggles with receiving and implementing feedback, does not communicate concerns and questions, but is respectful in lab area</i>	<i>Is closed off to guidance from mentors and demonstrates disrespectful behavior</i>	
Research Proficiency and Skill Development (25 pts)	Demonstrates good lab/computational proficiency and increasing independence over semester (10 pts)	<i>At end of semester: independently accomplish assigned tasks, have clear understanding of fundamental topics, propose future directions</i>	<i>At end of semester: requires supervision to complete tasks, have poor understanding of fundamental topics, little understanding of future direction</i>	<i>At end of semester: cannot complete tasks, no understanding of fundamental topics, little understanding of future direction</i>		
	Is curious, asks questions, and has demonstrated growth in research and lab skill development (7.5 pts)	<i>Has above average proficiency in one or more lab instruments/computational software</i>	<i>Has average proficiency in one or more lab instruments/computational software</i>	<i>Has less than average proficiency in one or more lab instruments/computational software</i>	<i>Has no proficiency in lab instruments/computational software</i>	
	Demonstrates good understanding research scope and overall topic (7.5 pts)	<i>Can clearly communicate all research objectives, and has obtained strong grasp of research background</i>	<i>Can state all research objectives, but lacks some research background</i>	<i>Misses some of research objectives, and has minimal research background</i>	<i>Merely performs tasks and does not know what research objectives are</i>	
Deliverables (25 pts)	Individual meetings with mentor: summary of results with suggested conclusions, and next steps to project planned (10 pts)	<i>Complete all reports with good quality</i>	<i>Complete most reports with varying quality</i>	<i>Complete few reports with poor quality</i>	<i>No reports</i>	
	Presentation: End of term presentation of work (7.5 pts)	<i>Give high quality presentation, provide draft prior to meeting to mentor, and incorporate feedback</i>	<i>Give medium quality presentation, fail to provide draft to mentor</i>	<i>Give low quality presentation</i>	<i>No presentation</i>	
	Summary: Written semester summary of work (7.5 pts)	<i>Provided summary in a timely manner</i>			<i>No summary</i>	
Total Points						/100

Modified from the Weber group at the Lawrence Berkeley National Laboratory

Mentor Responsibilities

- 1) Modify rubric as needed for specific student projects
- 2) Provide project description and research goals to student
- 3) Provide student with safety guidance and ensure student can safely operate in their work setting
- 4) Provide sufficient time, feedback, and guidance for student to meet required criteria
- 5) Give midterm grade on rubric to provide guidance on student's standing
- 6) Give feedback on end-of-semester presentation prior to their delivery

Grade Breakdown

Points (↑)	Grade
90	A+
80	A
70	A-
65	B+
60	B
55	B-
50	C+
45	C
40	C-
<40	F