## **Oral Prelim Rubric**

On a Pass/Fail scale, rate the student's performance in the oral prelim:

| 1.   | 1. Research readiness: The student                   |   |  |
|--|--|---|--|
|  | a.   | has engaged meaningfully in a substantive research project at UW-Madison  |  |
|  | b.   | has internalized and applies scientific ethics  |  |
|  |  | clearly understands <b>scientific methodology</b> and applies it to their research  |  |
| On a scale of 1 (poor) to 5 (excellent), where 3 denotes the pass-fail demarcation, rate the student's performance in the oral prelim: |  |   |  |
| 2.   | 2. Research presentation: The student                |   |  |
|  | a.   | explained the <b>scientific background</b> of their research clearly  |  |
|  | b.   | presented the research at a <b>level</b> appropriate for a set of peers from a related discipline at a scientific conference                          |  |
|  | c.   | showed clear understanding of the literature <b>cited</b> in their presentation   |  |
| 3.   | 3. Questioning on research presentation: The student |   |  |
|  | a.   | was able to answer questions about their research correctly   |  |
|  | b.   | displayed clear grasp of the <b>scientific</b> aspects of the research presented  |  |
|  |  | displayed clear grasp of the <b>technical</b> aspects of the research presented   |  |
|  |  | displayed clear grasp of the sources and implications of <b>uncertainty and error</b> in their research   |  |
| 4.   |  | estioning on topics broadly relating to student's research: The student displayed solid understanding of science areas ociated with their research by |  |
|  | a.   | answering <b>questions</b> about material in areas of astronomy relevant to their research correctly  |  |
|  | b.   | displaying the ability to <b>reason</b> through questions (physical reasoning)  |  |
|  | c.   | displaying a clear awareness and grasp of the <b>astronomical literature relevant</b> to their research   |  |