

HWRS Graduate Programs Assessment

Expected Learning Outcomes and Measures

By the time of graduation, students will be able to:

1. Demonstrate mastery of at least four of the following topics:
 - Water quality
 - Subsurface hydrology
 - Surface water hydrology
 - Systems hydrology
 - Water policy
2. Conduct basic hydrological measurement techniques
3. Analyze hydrologic data and formulate conclusions
4. Effectively communicate hydrologic concepts and research and
5. Produce and/or publish:
 - Professional-quality data summaries and
 - Professional-quality reports
 - OR
 - Peer-reviewed, journal-quality reports on research results

Measurements of ELOs will take place as follows, respectively:

1. Completion of core courses (or equivalent) with grade of B or higher
2. Grade in HWRS 513A
3. Averaged score from El Día judging (Rubric to be improved)
4. Grade of “P” (Pass) or “S” (Superior) on thesis or dissertation (Rubric to be developed)

Self-Assessment of Expected Learning Outcomes

The following **Self-Assessment** section is a request for numerical data only. (You will have the opportunity to provide written comments in the **Written Reflection Summary** section of this document.) On a **scale of 1 to 3**, with 1=No Mastery or a “C” or lower in a course, 2=Adequate Mastery or a “B” in a course, and 3=Mastery or an “A” in a course, assess yourself on the following:

What level of mastery do you feel you have achieved:

1. In the following topics?
 - Water quality
 - Subsurface hydrology
 - Surface water hydrology
 - Systems hydrology
 - Water policy
2. In conducting basic hydrological measurement techniques?
3. In your ability to analyze hydrologic data and formulate conclusions?
4. In effectively communicating hydrologic concepts and research (e.g. at *El Día*)?
5. In producing and/or publishing:

- Professional-quality data summaries AND
- Professional-quality reports
- OR
- Peer-reviewed, journal-quality reports on research results

Written Reflection Summary

Reflect on your overall experience as an MS or a PHD student and address the following questions. Be specific, as this feedback is an essential tool in our University-mandated effort to assess graduate training for HAS MS and PHD programs. The data are not used to evaluate you as an individual, but rather to help us assess the ability of our program to prepare students to meet expected learning outcomes.

- *How did your graduate experience help develop you professionally and prepare you for a career in hydrology?*
- *How well do you feel you have met the learning objectives now that you are at the end of your studies?*
- *How well do you think your coursework and research prepared you to meet these objectives?*