

Tracking Learning Outcomes

Though undergraduate research learning outcomes will vary by field of study and the parameters of specific research projects, the following outcomes can be used as a starting point for an assessment plan to track students' development throughout an undergraduate research experience.

Note: A basic assessment plan could include before/after assessments completed by the faculty mentor as well as before/after self-assessments completed by the student.

To what extent do you feel that your mentee can...

...understand contemporary concepts in your field?

Not at All (1) Novice (2) Intermediate (3) Advanced (4) Unknown (5)

...make use of the primary research literature in your field (e.g. journal articles)?

Not at All (1) Novice (2) Intermediate (3) Advanced (4) Unknown (5)

...identify a specific question for investigation based on research in your field?

Not at All (1) Novice (2) Intermediate (3) Advanced (4) Unknown (5)

...design an experiment or theoretical test of a hypothesis?

Not at All (1) Novice (2) Intermediate (3) Advanced (4) Unknown (5)

...observe and collect data/sources?

Not at All (1) Novice (2) Intermediate (3) Advanced (4) Unknown (5)

...analyze and interpret data/sources?

Not at All (1) Novice (2) Intermediate (3) Advanced (4) Unknown (5)

...relate results/conclusions to the "bigger picture" in your field?

Not at All (1) Novice (2) Intermediate (3) Advanced (4) Unknown (5)

...orally communicate the results of research projects?

Not at All (1) Novice (2) Intermediate (3) Advanced (4) Unknown (5)

...write a research paper for publication?

Not at All (1) Novice (2) Intermediate (3) Advanced (4) Unknown (5)