

CASNR Core Earth Science Course Checklist

A course qualifies as **Earth Science** when the **majority of graded work** centers on understanding and analyzing Earth's physical systems—**geosphere, hydrosphere, atmosphere, cryosphere**—and their interactions (with biosphere/humans) using scientific data, spatial/temporal reasoning, and appropriate quantitative methods.

Must be ACE 4 approved.

Course title & number: _____

ACE 4 Status (must be ACE 4): ☐ Approved ☐ Pending Approval ☐ Not Submitted

Instructor: _____ **Term:** _____

Inclusion criteria — must meet **all four. Provide justification and/or evidence for meeting each of the following criteria.**

- ☐ **Content focus:** $\geq 60\%$ of syllabus & graded work covers Earth systems/processes (not just general environmental issues).
- ☐ **Scientific practice:** Students analyze **Earth data** (field, lab, or archival datasets) to support evidence-based conclusions. (ACE 4)
- ☐ **Spatial/temporal reasoning:** Maps/sections/remote sensing and/or explicit time scales (seasonal $\rightarrow$ geologic). (ACE 4)
- ☐ **Quantitative component:** Calculations, uncertainty, basic stats or modeling appropriate to level. (ACE 4)

Quick rule: If any box above is unchecked, the course does **not** qualify as Earth Science.

Summary & Decision

Estimated % of graded work on Earth processes: _____% (Pass if $\geq 60\%$)

Final decision: ☐ Qualifies as Earth Science ☐ Does not qualify

Reviewer signature: _____ Date: _____