

Standing Requirements

## Outcomes Library

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### PHD in Spatial and Earth Sciences Outcome Set

#### Professional Communication

Acquire professional communication proficiencies.

Outcome	Mapping
Professional Communication demonstrate professional communication proficiencies in cores courses, thesis proposal defense, public thesis defense and presentations at professional meetings.	No Mapping

#### Professional Communities

Engage in and meaningfully contribute to diverse communities and professional environments.

Outcome	Mapping
Professional Communities Engage in and contribute to diverse professional environments including team oriented lab and field work and interaction with visiting scholars.	No Mapping

#### Professional Ethics

recognize and act on professional and ethical challenges that arise in the field or discipline.

Outcome	Mapping
Ethics recognize and act on professional and ethical challenges by completing either IRB or CITI training and ENVI 611.	No Mapping

#### Discipline Knowledge

Mastery of the knowledge required in their concentration.

Outcome	Mapping
Discipline Knowledge Achieve mastery of knowledge required in their concentration or profession through program core and electives by completing papers, exams, and a dissertation project.	No Mapping

#### Discipline Skills

Mastery of skills/tools required in discipline/concentration.

Outcome	Mapping
Discipline Skills Achieve mastery of skills/tools required in discipline/concentration in quantitative methods or hands-on lab and field work.	No Mapping

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