

# Systems Thinking and the Sciences

Please complete the top section of this form and upload with your application in Curriculog along with course syllabi and assignment instructions (if applicable).

---

**Proposer:**

**Course Number:**

**Course Title:**

**Major requirement?**  Yes  No

For each learning outcome, please indicate **learning activities, assignments, and assessments** through which students will meet outcomes/demonstrate learning. **Be sure to list assignments that will lead to student work that can be used as artifacts for assessment. Attachments of instructions or rubrics for these assignments are encouraged.**

1. Identify how fundamental scientific principles and methods can be used to enhance our understanding of the complex systems that influence the natural and/or social world and their behaviors and interactions.
2. Identify causes and potential solutions to problems associated with the interaction between human society and the natural world using systems thinking.
3. Apply existing systems thinking based models to complex natural and/or social phenomena, explain the models' underlying assumptions, and justify the application of those models to the system.