InTeGrate is a community effort that aims to increase students’ Earth literacy and preparation to tackle environmental and resource issues by integrating teaching about Earth in the context of societal issues throughout the undergraduate curriculum. The effort includes the development of 26 curriculum modules and 6 courses that:

- address one or more Earth related grand challenges facing society,
- develop students’ ability to address interdisciplinary problems,
- improve students’ understanding of the nature and methods of geoscience and developing geoscientific habits of mind,
- make use of authentic and credible geoscience data to learn central concepts in the context of geoscience methods of inquiry, and
- incorporate systems thinking.

Connections with Contemporary Real-world Issues

Materials focus on climate change, food security, water availability, natural resources, energy, natural hazards, environmental justice, and more. They connect students to interdisciplinary societal issues at the local, national, and global scale, tying their classroom learning to complex and systems thinking that they will utilize in the workplace and in informed decision making.

- Tackling contemporary issues, materials help students make connections with the news.
- Interdisciplinary connections highlight the importance of systems thinking and complex issues.
- Engaged pedagogies make learning active and fun and service learning and research can connect students with their community.

Increase Earth Literacy Across the Curriculum

InTeGrate-developed courses and modules are free, rigorously reviewed, and classroom-tested. They provide 2-12 weeks of material that can be adopted or adapted to classes in their entirety, or users can pick and choose pieces that suit their course. Materials also indicate NGSS and key literacies addressed.

- Grade level & module length
- Key literacies & NGSS addressed

Ready-to-use and Easy to Adapt

All courses and modules feature:
- units with lesson plans, presentation materials, student handouts and resources
- an overview of the materials
- a set of stand-alone student materials
- formative and summative assessments
- instructor stories documenting how the authors (and others) used materials in different settings and contexts
- an opportunity to join a community of others with interest in the materials.

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Community and Reach

Materials have been used in a variety of disciplines by more than a thousand instructors, reaching more than 100,000 students around the world, and exposure is growing through time.

Explore at https://serc.carleton.edu/integrate/teaching_materials

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