



## Professional Development Course Information

Our ever-growing course catalog features online courses that are informative, thought-provoking, and inspiring. Teachers' Domain Professional Development courses broaden educators' knowledge of science content and inquiry methodology, and help them integrate technology into the classroom. Each research-based course builds upon what participants already know and enables them to take an active role in their learning. The courses are online and asynchronous, allowing teachers to take them at their own convenience.



In addition to readings, assignments, online discussions, and videos of actual classroom practice, all courses include multimedia resources – video clips and interactive activities from public broadcasting sources such as *NOVA*, *ZOOM*, and *A Science Odyssey*. These multimedia resources are also available in the Teachers' Domain collections, an online library, for teachers to use with their students. All course content is correlated to state and national standards.

### Courses are available in two formats to best meet specific science learning needs and for graduate level credit.

Course Modules – 2 sessions

Full Survey Courses – 8 sessions

#### Course Modules

These are a quick immersion into teaching a particular topic. The courses focus on science content in the context of teaching strategies and inquiry. Online discussions build a community of learners. Courses also include readings, writings, and other assignments, and conclude with an assignment related to classroom practice.

**Prerequisites:** These courses are modules derived from the Full Survey Courses, adapted to stand on their own, and extended with a special final assignment. If taking two or more of these courses in a particular subject, we recommend taking them in order, as each serves as a prerequisite for the next one in the series. However, if starting with one of the later courses, we suggest reading the syllabi of preceding courses to confirm existing knowledge.

#### Full Survey Courses

These provide a comprehensive understanding of a subject and of the inquiry method, leading to a systemic change in approach to curriculum design and teaching strategies. Through online discussions that occur over several months, a collaborative community of learners develops. These full survey courses include readings, writings, and other assignments including a hands-on project that is worked on throughout the course.

*"It made me think about what I'm teaching and why."*

Science Specialist,  
Chestnut Hill, MA

**For more information or to contact us visit**  
[www.TeachersDomain.org/courseinfo](http://www.TeachersDomain.org/courseinfo)

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## Professional Development Science Course Catalog



Teachers' Domain is proud to offer the following professional development courses in science. Whether you want to broaden your content knowledge, new inquiry-based teaching strategies, or ideas for using technology in your teaching, Teachers' Domain courses will give you what you are looking for.

### Teachers' Domain has partnered with PBS TeacherLine!

Visit the PBS TeacherLine course catalog ([www.teacherline.pbs.org](http://www.teacherline.pbs.org)) to find out when each course is being offered. In some areas, Teachers' Domain courses may also be licensed by educational organizations to deliver to the teachers they serve. Contact us for more information.

	Elementary K–4	No. of sessions	Middle 5–8	No. of sessions	High 9–12	No. of sessions
Life Science	Teaching Elementary Life Science	8	Teaching Middle School Life Science	8	Teaching High School Biology	8
	Science and the Living World	2	Structure and Function	2	Inquiry in Science Education	2
	Plants and Animals	2	Regulation and Behavior	2	Teaching About Genetics	2
	Heredity and Adaptation	2	Reproduction and Genetics	2	Teaching About Evolution	2
	Ecosystems and Human Impact	2	Natural Selection and Applied Genetics	2	Designing Effective Lessons	2
Physical Science	Teaching Elementary Physical Science	8	Teaching Middle School Physical Science	8	Teaching High School Physical Science	8
	Motion and Forces in Your World	2	Understanding Energy Transfer	2	Inquiry in Physical Science Education	2
	Understanding Motion and Force	2	Understanding Waves	2	Assessing Understanding	2
	Understanding Properties and Structures	2	Understanding Heat Transfer	2	Building Understanding	2
			Understanding Solubility and Density	2	Teaching Effective Lessons	2
Earth & Space Science			Middle and High School			No. of sessions
			Teaching Earth and Space Science			8
			Introduction to the Earth System			2
			Structure of the Earth System			2
			Earth in Time and Space			2
			Weather and Climate			2

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