

**TEACHING SUPPORT PROGRAMS AND SERVICES FOR STEM FACULTY AT YALE
COMPILED BY BILL RANDO & JENNY FREDERICK**

****Additions to this list may be suggested to jennifer.frederick@yale.edu***

STEM Specific Programs

The Summer Institute (Center for Scientific Teaching)

A 4-day, intensive collaborative introduction to effective teaching, focusing on scientific teaching, active learning, alignment, assessment.

Teaching and Learning Lunches (CST)

Started by participants in the Summer Institute, this program includes regular meetings of STEM faculty to discuss issues in teaching and learning.

Center for Engineering Innovation and Design

A center for active learning and experimentation for students in engineering and their faculty, this laboratory offers programs to introduce faculty to use of the lab to create design assignments for students in their courses.

Multi-disciplinary Teaching Programs with STEM Participation

New Faculty Orientation (Provost's office/Yale Teaching Center)

Organized by the Provost's office, the orientation includes two sessions that focus on teaching and are presented by the Yale Teaching Center. This year's program included an introduction to teaching at Yale (held in the TEAL classroom), and a syllabus boot camp that emphasized course design, active learning, alignment, and assessment.

Individual Consultations (YTC, Center for Scientific Teaching, Science and QR Center)

All faculty members are offered individual teaching consultations, which include classroom observation and feedback. A pilot program with the department of economics features collaboration with the department chair to encourage use of consultation services among junior faculty and lecturers. STEM examples include ongoing work with the physics faculty teaching 170-171, the intro course for life sciences majors and premeds, and guidance for the math instructor who is flipping Math 115.

Office of Digital Dissemination & Online Education

This office coordinates online offerings and provides support to faculty developing Massive Open Online Courses (MOOCs) and online courses for the academic year or summer session.

Award Winning Teachers on Teaching (YTC's lunchtime discussion series)

A monthly discussion meeting featuring award winning senior faculty discussing some element of their teaching. Some recent topics: Teaching a Large Introductory Course (Marvin Chun); Playing Games and Taking Road Trips (Scott Strobel); The Changing Culture of the Lecture at Yale and Online (John Merriman); Teaching Lecture Courses with Sections and Integrating the "Flipped" Classroom (Christine Hayes)

Teaching Workshop Series (YTC)

Occasional workshops on effective teaching are available to all faculty members. This year's program has included: Five Ways to Deepen Discussion and Increase Participation in Seminars; Learning from Students: Enhancing Teaching with Mid-Term Feedback; Theater, Performance, and Narrative: Tools for Lecturers and Seminar Teachers.

The Associates in Teaching Program (YTC)

Funded by the Graduate School, this program allows faculty members and graduate students to submit proposals to co-develop and co-teach courses, with consultation from the YTC, which includes observation and feedback. Though developed primarily to give graduate students enhanced teaching experience, the program has shown to be enormously beneficial to participating faculty members and to departments interested in enhancing course offerings and introducing instructional innovation. Typically, proposals for science courses are a small percentage of the submissions.

Lux Talks

Developed out of collaboration among the University Library, IT, the Center for Language Study, and the Yale Teaching Center, Lux Talks (formerly Teaching with Technology Tuesdays) introduce participants to the latest instructional technologies. These talks range from being domain specific to generally relevant.

Provost's Office Funding for Innovation

A. CMI2

Originally developed by the Provost's Office to assist faculty in the development of high-end, technology intensive teaching projects, the CMI2 is now responsible for the development of many of the University's online initiatives, including but not exclusive to MOOCs.

B. Departmental Initiatives

Many STEM departments, including Math, Biology, Physics have received funding from the Provost's office to engage in major curricular and pedagogical reform.

Student Evaluation System

TEAL Classroom

Teaching Awards

Yale College Teaching Prizes

Provost's Junior Faculty Teaching Award

Teaching Innovation Grants (IT)

Programs and Awards at Other Institutions

Harvard Initiative for Learning and Teaching (HILT)

Stanford -- Hoagland Award for Innovation in Undergraduate Teaching

Stanford -- Boot Camps and Presidents Scholars.