"Deep learning" is the kind of integrative learning that lasts beyond the final exam. Ideally, it is the kind of learning that universities, colleges, and community colleges aim to produce. Deep learning takes place over a curriculum, not generally in a single course. Therefore, capstones, senior assignments, culminating experiences, and integrative portfolios are becoming more popular as potential venues for assessing deep learning. In this interactive session, a long-time acolyte of the senior assignment guides participants to uncover foundations and principles, costs, surprises, dos, and don'ts for creating, operating, and monitoring student learning through capstones.
On the History, Development, and Philosophy of Culminating Senior Experiences in US Higher Education

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Some references


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Some lessons learned for assessing culminating experiences
- Embedded in learning and teaching -- not added on
- Matches departmental or program goals -- part of the discipline(s)
- Departmentally owned -- not imposed artificially
- Viewed by the faculty -- a collective enterprise
- High stakes assessment -- it matters to the institution
- Liberal education component -- subscribes to LEAP
- Engages deeply -- it matters to the student
- Integrative -- crosses ways of knowing
- Produces archival product or behavior -- subscribes to standards of disciplinary peer review
- Potential for sharing -- extends beyond the institution

Capstone or keystone?
The Senior Capstone Assignment

Each senior is required to complete a Senior Capstone Assignment that demonstrates proficiency in the major and academic breadth commensurate with the University's general education expectations. This requirement arose from the University's belief that the ability to integrate a general education perspective into one's academic discipline is an essential mark of a University educated person. Each Senior Capstone Assignment (SCA) is a scholarly engagement between a senior student and dedicated professor(s) that results in a product. As such, SCAs make the curriculum visible and, therefore, assessable. SCAs foster creativity and self reliance by encouraging each student to gain control over his or her own educational experience, to become something more than a skilled classroom stenographer.

Rather than asking students to be consumers of knowledge, we ask them to participate in its development in discussions, in essays, in laboratories, in studios, on stage, and in countless other ways. As the culmination of a University education, the Senior Capstone Assignment has as an objective that students trace through in a given field the process by which ideas are created, refined, and expressed, either through their own inventive work or by replication of the work of someone else. Whether through an experiment, the exploration of text(s), quantitative or historical analysis, use of one of the arts, or by means of a practicum, the goal is that each senior gain and reveal through the SCA a baccalaureate-level understanding of how an idea, a work of art, a mathematical proposition, or a scientific conclusion comes into being, and to demonstrate this understanding via the transferable baccalaureate skills. In order for student learning to be assessed, students themselves must be participants in, rather than witness to, the activity of mindfulness.

---after H. Copeland, 1990

Each academic major has its own version of the SCA that may involve, for example, library inquiry, laboratory experiments, field study, or artistic creativity. Therefore, a given SCA may culminate in an artistic performance, technical design, public speech, written thesis, gallery presentation, or a combination of these with other forms of expression. Individual SCAs differ, but they share in common a challenge to each University student to achieve individual academic excellence. This is what distinguishes baccalaureate education at this University.

Four guidelines for building capstones
Replace, don't add
KISS, don't embellish
Faculty, not students, set standards
Build high stakes assessments

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Some institutions with capstones
LaGuardia Community College, CUNY
Portland State University
The College of Wooster
Philadelphia University
Princeton University
Bryn Mawr College
Augustana College
Brown University
Carleton College
Elon University
Reed College
Miami University
DePaul University
Allegheny College
Haverford College
Kalamazoo College
Washington College
Swarthmore College
Boise State University
University of Hartford
Salve Regina University
Michigan State University
University of California, Los Angeles
Southern Illinois University Edwardsville
California State Polytechnic University San Luis Obispo

Some integrative portfolios
La Guardia Community College
Florida State University
Clemson University
St. Olaf College
Some References on Assessment, Capstones, and Practices


