Bio Sci & Educational Media Design (BSEMD)

Courses

BSEMD 200. Individual Research. 2-12 Units.
Individual research with Biological Sciences and Educational Media Design faculty.

Repeatability: May be repeated for credit unlimited times.

BSEMD 211. Advanced Pedagogical Design and Educational Science Media Production. 4 Units.
Explores array of pedagogical methodologies for designing effective science curriculum. Concurrently overviews educational science digital media production tools with training for such skills as scripting, scientific videography and editing, photography, illustration, games, and Web multimedia integration.

Prerequisite: Biological Sciences and Educational Media Design majors only.

BSEMD 212. Directed Research Specialization and Project Development. 4 Units.
Supports establishing field experiences, selecting biology course work, and investigating research interests for conceptualizing the capstone project proposal. Supports applying concepts and skills from the BSEMD 211 course to projects in early development.

Restriction: Biological Sciences and Educational Media Design majors only.

BSEMD 213. Directed Educational Media Project Production. 4 Units.
Supports production of the capstone project's individually designed modules, effective functional scientific educational media components, showcasing advanced pedagogical design with innovative educational media content, refining approaches detailed in the BSEMD 211 course.

Prerequisite: BSEMD 211 and BSEMD 212.

Restriction: Biological Sciences and Educational Media Design majors only.

BSEMD 214. Project Presentations and Science Education Leadership. 4 Units.
This program capstone course facilitates refining presentation aspects of the final capstone educational media project, writing of the supporting documentation package, and multimedia presentation of projects. Also includes seminar research talks on contemporary issues affecting science education.

Prerequisite: BSEMD 211 and BSEMD 212 and BSEMD 213 and BSEMD 220.

Restriction: Biological Sciences and Educational Media Design majors only.

BSEMD 220. Experimental Evolution in Biology and Education. 4 Units.
Overview of the field of experimental evolution. Focuses on microbial laboratory techniques for testing evolution theory with examples from the impact of global climate change. Methods for addressing controversy in teaching evolution in secondary classrooms are discussed.

Restriction: Biological Sciences and Educational Media Design majors only.

BSEMD 299. Independent Study. 1-4 Units.
Independent study with Biological Sciences and Educational Media Design faculty.

Repeatability: May be repeated for credit unlimited times.