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Teaching portfolio

Formal pedagogical education: Adjunktprædagogikum (1-year training program), University of Southern Denmark, 2003.

Languages used in teaching: Danish, English, German.

Overview and teaching philosophy:

Experience with teaching reaching from 1st-year B.Sc. to graduate-level courses, from lecture-based courses to experimental field projects, from topics within own research expertise to fundamental biological themes, from sole teacher of semester-long courses to brief appearances in multi-teacher courses, and with audiences including students of biology, pharmaceutical science, chemistry and engineering.

Within the many constraints defined by the variable circumstances and by the specific learning aims defined for each course, it is my overarching goal to emphasize the wider perspectives and unsolved issues of a given subject and to inspire curiosity and critical thinking, while reaching the largest possible fraction of a class in this effort. This is a particular challenge at the introductory level where skills and focus of students vary greatly.

Study planning and administration

- Contributed to the planning of an “elite module” in geobiology, M.Sc. level, 30 ects, SDU, 2008-2009
- Member of the study commission of the Institute of Biology since 2009
- Elected member of the study board of the Faculty of Sciences 2014-2017

Teaching responsibilities

Courses of which I am or have been in charge

- BB15 – Ecology B (6 ects; 2000-2009) / BB808 – Field course in marine biology (5 ects; 2010-2011); M.Sc. level in biology.
- BB04 – Plant Biology (7.5 ects; 2003-2005) / BB516 – Botany (7.5 ects; 2006-2012) / BB531 – Plants, Protists and Fungi (10 ects; 2013-present); B.Sc. level in biology.
- BB508 – Biology of Animals and Plants (10 ects; 2006-2011); B.Sc. level, pharmaceutical science
- BB540 – Microbial Ecology and Global Biogeochemical Cycles (10 ects; 2016-present); B.Sc. level in biology.

Contributions to other courses

1989-1992, Microbial Ecology, lectures, lab. exercises, student projects, University of Aarhus (M.Sc.); 1993-1997, Biogeochemistry, lectures, University of Bremen (M.Sc./graduate); 1998-present, invited lectures in courses in Microbial Ecology (BB27/BB84; M.Sc./graduate level), Biological Oceanography (BB86; M.Sc.), Advanced Wastewater Treatment (BB73; M.Sc.), Bioinorganic Chemistry (KE810; M.Sc.), SDU; 1998-present, invited lectures in courses in Microbial Ecology/Biogeochemistry, Universities of Aarhus and Copenhagen; 2000, Ph.D.-course in Earth System Science, lectures, University of Copenhagen; 2009 – 2011, Ph.D. course in Ocean Biogeochemical Dynamics, lectures, University of Gothenburg; 2011, Geobiology (M.Sc.), lectures, SDU; 2012-2015, Biogeochemistry and Nutrient Cycling (M.Sc.), lectures, Sino-Danish University Centre, Beijing; 2018-present Ph.D. course in Aquatic Microbial and Molecular Ecology, SDU, lectures and exercises.

Project supervision at SDU

2000-present, Individual Study Activity (B.Sc. and M.Sc. level, 1-10 ects, > 20 projects); 2002-2005, Biology Project A/B (BB12/BB13; B.Sc. level; 6/3 ects); 2006-present, Science Project (NAT501/FF501; B.Sc. level); 2007-2011, The Biology of an Organism (BB505; B.Sc. level; 5 ects); 2008-present, Research Project I/II/III (BB810/811/812; M.Sc. level, 5/5/10 ects); 2008-2010, Project in Ecology (BB514; B.Sc. level; 5 acts).

Assessment

Experience with written exams including both short questions and longer essay-type questions, with practical tests with identification and or analysis of different specimens, with assessment through reports, and with oral exams.