COURSE DETAIL

SYNTHETIC BIOLOGY
Country Denmark
Host Institution University of Copenhagen
Program(s) University of Copenhagen
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Biological Sciences
UCEAP Course Number 102
UCEAP Course Suffix
UCEAP Official Title SYNTHETIC BIOLOGY
UCEAP Transcript Title SYNTHETIC BIOLOGY
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description
Synthetic biology applies a novel conceptual framework in biology. By introducing engineering concepts, synthetic biology forms the basis for new developments in medicine, pharmaceutical science, plant biology, and material science. Fundamental technologies that are central to synthetic biology include: DNA synthesis, high-throughput genetic manipulation methods, facile access to off-the-shelf standardized biological parts and devices, parts registries, and computer-aided genetic design. Advanced tools that enable the integration of basic synthetic units into multi component devices are continuously being developed, and a variety of modern analytical techniques and computational tools are applied in the design and tests of new systems.

Language(s) of Instruction
English

Host Institution Course Number
LBIK10207U

Host Institution Course Title
SYNTHETIC BIOLOGY

Host Institution Campus
Science

Host Institution Faculty

Host Institution Degree

Host Institution Department
Plant and Environmental Sciences/Chemistry/Neuroscience and Pharmacology

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