BIOCORE (BCOR)

Courses

BCOR 011. Exploring Biology. 0 or 4 Credits.
Exploring biology from cells to organisms. Topics include origins of life, ancestral organisms, uni- and multi-cellular energetics, evolution of respiration and metabolism, and the genetic code. Credit not given for both BCOR 011 and BIOL 001. Pre/co-requisite: Concurrent enrollment or credit in CHEM 031 or CHEM 032.

BCOR 012. Exploring Biology. 0 or 4 Credits.
An evolutionary perspective to exploring biology. Topics include: patterns of inheritance, Darwinian evolution, evolution of biodiversity, ecology of organisms, human effects on biological systems. Credit not given for both BCOR 012 and BIOL 002. Pre/co-requisite: Concurrent enrollment or credit in CHEM 031 or CHEM 032.

BCOR 021. Accelerated Biology. 0-4 Credits.
Selected topics from the full year of introductory biology, compressed into one semester. For students with demonstrated mastery of basic biology (e.g., AP credit). Permission required. Credit not given for BCOR 021 and BIOL 001 or BCOR 011. Pre/co-requisite: Concurrent enrollment or credit in CHEM 031, CHEM 035, or CHEM 051.

BCOR 090. Internship. 1-3 Credits.
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

BCOR 095. Introductory Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

BCOR 096. Introductory Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

BCOR 101. Genetics. 0 or 3 Credits.
The basis of inheritance, covering topics from classical genetics to modern molecular studies. Analysis of genetic data emphasized, from prokaryotic, animal, and plant systems. Prerequisites: BIOL 001 or BCOR 011, and BIOL 002 or BCOR 012; or BCOR 021; and also CHEM 031, CHEM 035, or CHEM 051, and CHEM 032, CHEM 036, CHEM 052. CHEM 141, BCOR 101 recommended.

BCOR 102. SU:Ecology and Evolution. 0 or 4 Credits.
Ecosystem and community structure, population growth, species interactions and niche dynamics, population and chromosomal genetics, speciation in fossil records, ecology of animal behavior, applied ecology. Prerequisites: BIOL 001 and BIOL 002, or BCOR 011 and BCOR 012, or BCOR 021; MATH 019 or MATH 021.

BCOR 103. Molecular and Cell Biology. 0 or 4 Credits.
Explores the fundamental processes of life. Topics include cellular metabolism; structure and function of organelles; cell cycle; signal transduction; biology of cancer. Prerequisites: BIOL 001 or BCOR 011, and BIOL 002 or BCOR 012; or BCOR 021; and also CHEM 031, CHEM 035, or CHEM 051, and CHEM 032, CHEM 036, CHEM 052. CHEM 141, BCOR 101 recommended.

BCOR 190. Internship. 1-18 Credits.
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

BCOR 192. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

BCOR 195. Intermediate Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

BCOR 196. Intermediate Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

BCOR 197. Teaching Assistantship. 1-3 Credits.
Undergraduate student service as a teaching assistant, usually in an introductory-level course in the discipline, for which credit is awarded. Offered at department discretion.

BCOR 198. Undergraduate Research. 1-18 Credits.
Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

BCOR 290. Internship. 1-18 Credits.
On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

BCOR 292. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

BCOR 295. Advanced Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

BCOR 296. Advanced Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

BCOR 297. Teaching Assistantship. 1-3 Credits.
Undergraduate student service as a teaching assistant, usually in an introductory-level course in the discipline, for which credit is awarded. Offered at department discretion.
BCOR 298. Undergraduate Research. 1-18 Credits.
Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.