

Options for Evolution:

1. UC Davis EVE 100 taken for credit
2. Equivalent course to EVE 100 taken for credit at another institution
3. Upper division or graduate level course taken at UCD for which EVE 100 is a pre-requisite that meets 80% or more of the core topics listed below.
4. Documentation (via syllabi) that student has trained across multiple courses taken for credit in all 10 key learning objectives of EVE 100.
 - Mutation and selection
 - Genetic drift and molecular evolution
 - Multiple loci and quantitative genetics
 - Sexual selection
 - Social Behavior
 - Speciation
 - Phylogeny
 - Genome evolution
 - Origins of Life, Fossil record, Cambrian Explosion, Development and the origin of Phyla, Mesozoic, Cenozoic, Ice Age! Pleistocene and thereafter
 - Human Evolution & Development
5. Study group in evolution (e.g. 290) dedicated to graduate students
6. Online self-study, e.g. this class for educators from Coursera:
https://www.coursera.org/learn/teaching-evolution?action=enroll&authMode=signup&ranEAID=SAyYsTvLiGQ&ranMID=40328&ranSiteID=SAyYsTvLiGQ-WH7HVKNwsrp3ApJexOdLg&siteID=SAyYsTvLiGQ-WH7HVKNwsrp3ApJexOdLg&utm_campaign=SAyYsTvLiGQ&utm_content=10&utm_medium=partners&utm_source=linkshare.

Summary: *We provide multiple options for how to meet this requirement, in addition to taking EVE 100. All of these options will be detailed in the upcoming degree requirements edits and on resources available for students on our webpage.*

UCD Courses with EVE 100 as a prereq or evolution equivalents that *might* meet the evolution requirement, subject to discussion with advisor or chair

EVE 102 Population & Quantitative Genetics

Lecture—3 hour(s); Discussion—1 hour(s). Prerequisite(s): BIS 101; (STA 100 or STA 102); EVE 100. Evolution as caused by random mating, genetic drift, natural selection, inbreeding, migration, and mutation in theory and actuality. The resemblance between relatives and consequences of selection for quantitative traits. Application of these ideas to topics such as the evolution of sex. GE credit: SE. Effective: 1997 Winter Quarter.

EVE 103 Phylogeny, Speciation & Macroevolution

Lecture—3 hour(s); Discussion/Laboratory—3 hour(s). Prerequisite(s): EVE 100. Statistical inference of evolutionary patterns and processes above the species level. Topics include estimation of phylogenies and divergence times, character evolution, biogeographic history, and rates and patterns of lineage diversification, with an emphasis on the origin of species. GE credit: QL, SE, SL. Effective: 2012 Winter Quarter.

EVE 149 Evolution of Ecological Systems

Lecture—3 hour(s); Term Paper. Prerequisite(s): (EVE 101 or ESP 100); EVE 100; Or equivalent courses. Evolution as an organizing force in natural communities. Coadaptation in trophic and competitive relationships. Ecology of polymorphisms, clines, and speciation. GE credit: SE, SL, WE. Effective: 1997 Winter Quarter.

GEL 141 Evolutionary History of Vertebrates

Lecture—3 hour(s). Prerequisite(s): GEL 003 or GEL 053 or BIS 002A. Evolutionary history of vertebrates; fossil record and phylogeny; timing of major evolutionary events; appearance of major vertebrate groups; physical constraints in vertebrate evolution; paleobiogeography of vertebrates; effect of continental movement on vertebrate evolution; dinosaurs and other strange vertebrates. Offered in alternate years. GE credit: SE. Effective: 2020 Winter Quarter.