This course is being revised to be included in the new Integrative Biology (IB) graduate curriculum. The new curriculum includes conceptual areas of focus in IB: ecology, evolution, and organismal biology. IB 514 was identified as a professional development course of interest to diverse graduate students in and out of the department, and it aligns well with IB faculty expertise in scientific communication, mentorship, and collaborative research. The proposed IB 514 course meets a critical training need by providing structured, hands-on instruction in scientific writing and publication practices. These skills are essential for graduate success but are not currently addressed in sufficient depth or disciplinary focus by other campus offerings. The course complements existing proposal-writing and technical writing courses by emphasizing the full manuscript writing process, peer review dynamics, and collaborative writing workflows in Biology.