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Problem. In recent years, the interest towards the independent work in organizing the educational process in all courses of studying a foreign language at institutions of higher education has increased significantly. Considerable attention is paid to the issues of upbringing the personality of a modern specialist, one's competitiveness, and public responsibility. Goal. The goal of the article is to determine the specifics of independent work as an important form of the main direction and tasks of the educational process at the university for the development of foreign language professional comm However, bioinformatics education is not well integrated at the undergraduate level, especially in liberal arts colleges and regional universities in the United States. One significant obstacle pointed out by the Network for Integrating Bioinformatics into Life Sciences Education is the lack of faculty in the bioinformatics area. Some groups have integrated bioinformatics into biology classes by pairing biology students with computer science students to solve bioinformatics challenges [18]. The JAX Genomic Education group has trained more than 160 high school teachers in a professional development program called Teaching the Genome Generation (TtGG). The program introduces genetics, bioinformatics, and bioethics into high schools [24].