

职前培养中学化学教师校本教材编写能力的实践研究

——基于现代化学与中学化学课程平台

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“校本课程”理念与模式有助于解决我国中学化学与现代化学衔接不够的问题, 但我国中学化学教师普遍缺乏编写引入现代内容的校本教材的能力, 因为在他们的职前教育中, 这种能力的培养是一项空白。作为国内的首批建设者, 作者将自身的学科研究背景与教师教育研究、基础教育研究有效地结合起来, 历经16年, 持续探索学生为主体、教师为主导的教学方法, 把教育硕士学位必修专业课《现代化学与中学化学》改造成了学生的研究课、实践课, 凝练出“课堂教学-课题研究-成果发表”三位一体人才培养模式。从文献调研开始, 围绕“一核心、三循环”教学, 对学习者的实施中学化学校本教材建设的思维训练及实践训练。同时, 架构起学生的课程作品走向社会的渠道, 通过在国内刊物正式发表而积累起80余篇可供高中一线使用的体现现代内容的中学化学教学材料。本实践研究填补了中学化学师资职前培养能力结构中如何及时吸收和转化现代化学内容的这项空白。

关键词: 中学化学师资; 校本教材; 编写; 能力培养

Practical Research on Improving Preservice Teachers' Competence in Developing School-based Chemistry Teaching Materials When Connecting Modern Chemistry and Middle School Chemistry

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School-based curriculum helps to incorporate modern chemistry into middle school chemistry, however, middle school chemistry teachers generally do not have the competence to develop school-based curricula, therefore, there is the gap in preservice chemistry teacher education. As pioneers, the first author and her colleagues made use of their chemistry research and teacher education research experience to continuously transform student-centered and teacher-guided approach to a new model in developing a required master course called "Modern Chemistry and Middle School Chemistry". The new model is characterized by a three-in-one series of *classroom teaching*, *theme-based studies*, and *publication* in the forms of study classes and practice classes. The classes started from literature research, and student learning was around "one-center and three cycles"; students learned theories and practice in developing school-based middle school chemistry curricula. Meanwhile, the course built channels for student-developed curriculum to the public; students have published over 80 modules that can be used by middle schools via some journals. The practical research fills in the gaps in enabling preservice middle school chemistry teachers to develop school-based curricula.