

Contents of earth science in a teacher-training course for science teachers

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Training of science teachers at a high school is performed in a teacher-training college, in a faculty of education in universities, and also in a teacher-training course in a faculty of science, engineering, agriculture and others in universities. In the case of a teacher-training college and a faculty of education, students are given earth science which consists of main five fields such as geology, geophysics, oceanography, meteorology and astronomy in general. They are taught most of the fields included in earth science. But in many cases, students in a teacher-training course in a faculty of science, engineering and agriculture in many universities are given earth science which consists of only two fields, geology and geophysics, except oceanography, meteorology and astronomy. The contents which the students are taught in such universities are incline toward geology and geophysics remarkably.

The difference of the contents of earth science between the two cases is due to the number of teaching staff who studies earth science fields. There are only a few staffs in a teacher-training course in many universities. And many of them are not familiar with oceanography, meteorology and astronomy, because they are geologists or geophysicist.

Earth science in a high school include not only geology and geophysics but also oceanography, meteorology and astronomy. The disagreement between the contents of earth science in a high school and those which are given in a teacher-training course in many universities cultivate science teachers who do not have sufficient knowledge about earth science which can be taught to high school students. The actual students' knowledge about earth science in a university and some problems based on the disagreement are discussed in this report.