

## Ph.D. Program in Chemistry Group

	Doctor Program
Years of Study	3~7 years
Minimum Credits of Courses	26 credits (credits for the Ph.D. thesis not included)
Thesis (Ph.D.)	0 credits
Required Courses	<p>1. Literature on Chemistry I-IV (Ph.D.) : 1 credit each for four semesters</p> <p>2. Research Training : 1 credit each for a minimum of six semesters</p> <p>3. Two advanced courses (having the course number of 223 Dxxxx) selected from the followings :</p> <p>(1) Discussion in Advanced Organic Chemistry I or II (required for students majoring in Organic Chemistry)</p> <p>(2) Discussion in Advanced Inorganic Chemistry I or II (required for students majoring in Inorganic Chemistry)</p> <p>(3) Discussion in Advanced Analytical Chemistry I or II (required for students majoring in Analytical Chemistry)</p> <p>(4) Discussion in Advanced Physical Chemistry I or II or III, (required for students majoring in Physical Chemistry)</p> <p>4. Teaching Practice in Chemistry I and II(Ph.D.) (2 semesters, 1 credit each)</p> <p>5. Foreign Language (2 semesters, 0 credit)</p>
Selective Courses	<p>3 to 4 courses with course numbers of 223Uxxxx offered by the Department of Chemistry</p> <p>The total number of credits received from taking three required (223 Dxxxx) courses in the advanced chemistry and the selective (223 Uxxxx) courses should be at least 14(excluding the credits received from taking the courses like Literature on Chemistry I-IV (Ph.D.), Research Training, and Ph.D. Thesis)</p>
Additional Regulations	<p>※the Research Training course :</p> <p>1. This course has to be taken every semester unless the thesis oral defense is passed before the course drop-add deadline for the</p>

	<p>semester.</p> <ol style="list-style-type: none"><li>2. At least four semesters of Research Training directed under the same professor are required.</li></ol> <p>※the Literature on Chemistry course :</p> <ol style="list-style-type: none"><li>1. Doctoral students should consecutively take the Literature on Chemistry course for a total of 4 semesters, starting from the first semester after entrance.</li><li>2. At least 15 written reports from attending Chemistry department lectures should be submitted each semester.</li></ol> <p>※For students enrolled in/after 2018, they shall take a Qualifying Exam, which includes a written research proposal and its oral defense.</p>
--	--