

## Department of Polar Science Course Registration Model (5-year Integrated Doctoral Program)

Fields of education and research guidance : Polar Geoscience

Research topics : Geochemical study of Antarctic meteorite subjected to shock

Year	Comprehensive subjects	Credits	School common foundation subjects	Credits	Introductory subjects group	Credits	Specialization subjects group	Credits	Research guidance subjects group	Credits	Fieldwork			
1	Student seminars	1	Introduction to Advanced Earth Science I	2	Introduction to Crustal material and processes	2	Crustal Evolution	2	Special Lectures for Dissertation I	2	Participate in the Frontier Seminar on Planetary Sciences.  Learn SEM and EPMA analysis method.			
	SOKENDAI lectures	1	Introduction to Advanced Earth Science II	2	Introduction to Solid Earth Geophysics in the Antarctic Region	2	Planetary Material Science	2	Special Exercise for Dissertation I	2				
<p>&lt;Goals&gt; As you broadly study multidisciplinary sciences and polar science, focus on a research theme and set up a general framework for the research plan of your doctoral thesis. At the student presentation sessions in February, explain your research findings to date, and present your plan for further research work. This presentation is reviewed by supervisors, as well as by the entire body of academic staff in the department.</p>														
2			Introduction to Multidisciplinary Science	2					Special Lectures for Dissertation II	2	Learn SHRIMP analysis method.  Learn ICP-MS analysis method.			
									Special Exercise for Dissertation II	2				
<p>&lt;Goals&gt; Narrow down the themes of your doctoral thesis and decide on a particular theme and research plan. Conduct fieldwork or other activities to collect the data needed for your thesis. Furthermore, write an interim report including all the findings of your research since enrolment. Complete this before the end of the academic year and have it assessed by the academic staff of the research group. At the student presentation sessions in February, explain your research findings to date, and present your plan for further research work. This presentation is reviewed by supervisors, as well as by the entire body of academic staff in the department.</p>														
3									Special Lectures for Dissertation III	2				
									Special Exercise for Dissertation III	2				
<p>&lt;Goals&gt; Collect necessary data, in accordance with the theme of the doctoral thesis, through fieldwork or other means, and analyze the data. At the student presentation sessions in February, explain your research findings to date and show a research plan for further work. This presentation is reviewed by supervisors, as well as by the entire body of academic staff in the department.</p>														
4									Special Lectures for Dissertation IV	2				
									Special Exercise for Dissertation IV	2				
<p>&lt;Goals&gt; Finish collecting all the data necessary for the doctoral thesis and proceed with analyzing the data. Start writing the thesis. In addition, prepare a paper on a topic connected with the doctoral thesis and submit it to a peer-reviewed journal. At the student presentation sessions in February, explain your research findings to date. This presentation is reviewed by supervisors, as well as by the entire body of academic staff in the department.</p>														
5									Special Lectures for Dissertation V	2				
									Special Exercise for Dissertation V	2				
<p>&lt;Goals&gt; Proceed with writing the doctoral thesis. The thesis should be 80% complete (at the standard of a doctoral thesis) by the preliminary assessment stage. After the preliminary assessment, make sure to address all the issues raised by the preliminary assessment committee before applying for the final assessment. Then work to complete the thesis.</p>														
No. of credits		2			8			4			8			20
		(1)			(2)			(3)			(4)			(5)

Obtained credits	42
Credits needed for degree	40

(Note that 8 credits of category (2) must be included. Up to 2 credits of category (1) can be counted towards the degree. In addition, credits earned from other universities can also be counted towards the degree, in accordance with the credit exchange system, subject to specified limits.)