

科目名	Course Title
無機材料化学2(Chemistry of Inorganic Materials II)	
学科・専攻	Department/Program
G30 Chemistry	
受講年次	Grade
3rd	
授業形態	Class style
必修・選択の別	Compulsory or Elective
講義	* See "Remarks"
時間割コード	Registration code
0681150	
開講期・曜日・時限	Semester, Day & Period
春学期 月 : 1	
単位数	Credit
2	
科目区分	Course type
Basic Specialized Courses	
担当教員	Instructor
SAMJESKE Gabor Arwed(SAMJESKE Gabor Arwed)	
所属研究室	Laboratory
Department of Chemistry	
連絡先	Contact
gsamjeske@chem.nagoya-u.ac.jp	
居室	Room
B219	

講義の目的とねらい	Course purpose
The purpose of this two semester course consisting of Chemistry of Inorganic Materials I & II is to understand the chemical and physical properties of various inorganic materials, their functions, their analysis and their applications.	
履修要件	Prerequisite
Fundamentals of Chemistry I & II, Inorganic Chemistry I & II, Chemistry of Inorganic Materials I	
履修取り下げの方法について	How to Apply for Course Withdrawal
<p><「履修取り下げ届」提出の要・不要 Necessity/Unnecessity to submit "Course Withdrawal Request Form"> Necessary</p> <p><条件等 Conditions> Course withdrawal will be allowed only until the first exam (intermediate exam), which will take place after lecture 6. Exceptions for later withdrawal can only be granted in cases of illness, injury or other unavoidable reasons.</p>	
成績評価	Grading
<p>Activity (homework, quizzes, attendance): 10%</p> <p>Presentation: 20%</p> <p>Intermediate and final exam: 70% (20% intermediate, 50% final exam, comprehensive)</p> <p>TOTAL 100% = 100 pts</p> <p>Grades: "S" = 100 - 90% (> 90 pts), "A" = 89 - 80% (9 - 80 pts), "B" = 79 - 70% (79 - 70 pts), "C" = 69 - 60% (69 - 60 pts), "F" = 59 - 0% (< 60 pts)</p> <p>Grades are final and calculated on the basis of the performances during class, the presentation and in the two exams only. There will be no possibility to improve a grade after the final exam. Students who miss the final exam due to a (documented) illness, injury or other unavoidable reasons can ask the instructor.</p>	
不可 (F) と欠席 (W) の基準	Criteria for "Absent(W)" & "Fail" grades

The course will be graded "F" (failed) if less than 60% of the points were obtained. The course will be graded as "absent" as stated in "course withdrawal"

関連する科目 Related courses

Inorganic Chemistry I, Fundamentals in Chemistry I + II, Inorganic Materials I

教室 Class room

Check the Course Timetable.
A408

到達目標 Goal

At the end of the two-part course, students will have gained knowledge of solid-state chemistry enabling them to understand structures, synthesis and analysis of inorganic solid materials.

授業内容 Content

Solid State Chemistry
• Phase diagrams
• Analysis
• Electric properties
• Magnetic properties
• Optical properties

教科書 Textbook

Solid State Chemistry and its Applications (2nd Edition, Student Edition), Anthony R. West; Wiley 2014

参考書 Recommended reading

Additional reading will be useful for the preparation of the presentations: " Carter, Norton: Ceramic Materials – Science and Engineering, 2nd Edition, SPRINGER "

連絡方法 Contact method

Either after the classes or during the office hours/by email (to be announced)

その他 Remarks

*See Course List and Graduation Requirements for your program for your enrollment year.
* Grading will be changed to the new system for those students who enroll in AY2020