

科目名	Course Title
無機化学1(Inorganic Chemistry I)	
学科・専攻	Department/Program
G30 Chemistry	
受講年次	Grade
2nd	
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
0681110	
開講期・曜日・時限	Semester, Day & Period
春学期 火 : 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
B-219	

講義の目的とねらい	Course purpose
<p>Inorganic chemistry I is the first part of a three-semester course in inorganic chemistry consisting of parts I, II, and III. Aim of the three-semester course is to present principles and fundamentals of inorganic chemistry, to introduce chemical reactions and to show examples of the role of inorganic chemistry in the industry, environment and every day lives.</p>	
履修要件	Prerequisite
Fundamentals of Chemistry I and II, (Laboratory in Chemistry), Analytical Chemistry	
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 <条件等 Conditions> Course withdrawal needs to be submitted by either email or in paper form and will be allowed only until class 7, after 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 (graded quizzes): 10% Intermediate and final exam: 90% (40% intermediate, 50% final exam, comprehensive) TOTAL 100% = 100 pts Grades: Grade evaluation will be based on your academic year of enrollment, students who enrolled in AY2020 and after that will be evaluated according to the A(+)-A-B-C-C(-)-F system. Grades are final and calculated on the basis of the performances during class (quizzes) 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

Fundamentals of Chemistry I and II, Analytical Chemistry

教室 Class room

Check the Course Timetable.

到達目標 Goal

At the end of the complete course (Inorganic Chemistry I, II, III), students should have learned a robust foundation in physical inorganic principles and also applications of the subject to catalysis and industrial processes.

授業内容 Content

The contents of inorganic chemistry 1 will cover the topics of the structure of the atom, orbitals, periodic system of the elements, bonding models, MO theory, symmetry, acids and bases, solid structures.

Additional to lecture time, students are expected to spend 1 - 2 hours per week for homework and preparing for lectures and quizzes.

教科書 Textbook

Catherine E. Housecroft, Alan G. Sharpe; INORGANIC CHEMISTRY, 5TH EDITION; PEARSON - PRENTICE HALL

参考書 Recommended reading

Pfennig, Brian William: "Principles of Inorganic Chemistry", 2015, John Wiley & Sons, Inc., ISBN 978-1-118-85910-0

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.
Grade evaluation will be based on your year of enrollment in Nagoya University