

|  |                        |
|--|------------------------|
| 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                   |
| B219                                       |                        |

|  |  |
|--|--|
| 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, Analytical Chemistry   |  |
| 履修取り下げの方法について  | How to Apply for Course Withdrawal       |
| <p>&lt;「履修取り下げ届」提出の要・不要 Necessity/Unnecessity to submit "Course Withdrawal Request Form"&gt;<br/> Necessary<br/> &lt;条件等 Conditions&gt;<br/> 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%<br/> Intermediate and final exam: 90% (30% intermediate, 60% final exam, comprehensive)<br/> TOTAL 100% = 100 pts<br/> Grades: "S" = 100 - 90% (&gt; 90 pts), "A" = 89 - 80% ( 9 - 80 pts), "B" = 79 - 70% (79 - 70 pts), "C" = 69 - 60% (69 - 60 pts), "F" = 59 - 0% (&lt; 60 pts)</p> <p>Grades are final and calculated on the basis of the performances during class 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.  
A-407

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 I 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.

教科書 Textbook

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

参考書 Recommended reading

Weller, Overton, Rourke, Armstrong: Inorganic Chemistry, 7th Edition, OXFORD

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