

Course Schedule Information

Course Code／時間割コード	13A716
Semester／開講区分(開講学期)	Spring Term
Day and Period／曜日・時間	Mon4
Course Name (Japanese)／開講科目名	Introductory Chemistry AI
Room／教室	School of Science/Lecture Room B208,IRB 401 Lecture Room
Course Name／開講科目名(英)	Introductory Chemistry AI
Capacity／定員	0
Course Numbering Code／ナンバリング	G3IUPS1G001
Credits／単位数	1.0
Student Year／年次	1,2,3,4,5,6
Instructor／担当教員	Luke Dylan Ueda-Sarson

Basic Syllabus Information

Subtitle／サブタイトル	
Eligibility／履修対象	

[List of Instructor\(s\).](#)

Detailed Syllabus Information

Course Name／講義題目	Introductory Chemistry AI
Language of the Course／開講言語	English
Type of Class／授業形態	Lecture Subject
Course Objective／授業の目的と概要	To give 1st-year science students a solid grounding on the properties of the fundamental building blocks of matter: atoms.
Learning Goals／学習目標	Detailed learning goals will be provided at the start of each lesson.
Requirement / Prerequisite／履修条件・受講条件	None.
Class Plan／授業計画	<p>Week 1: Course introduction; an introduction to the atom, and wave-particle duality</p> <p>Week 2: Electrons & quantum numbers</p> <p>Week 3: Quantum numbers, single atom electron configuration & spectra</p> <p>Week 4: Energy levels (Schrödinger equation)</p> <p>Week 5: Atomic orbitals</p> <p>Week 6: Multi-electron atoms & electron configuration</p> <p>Week 7: Atomic properties & periodicity</p> <p>Week 8: Exam</p>
Independent Study Outside of Class／授業外における学習	<p>Preparation for upcoming lessons: read the appropriate sections(s) of the textbooks(s).</p> <p>Homework exercises: 5 (for lessons 2 through 6).</p> <p>Review the contents of each class.</p>
Textbooks／教科書・教材	<p>Nivaldo J. Tro: Chemistry, A Molecular Approach (3rd or 4th Global Editions)</p> <p>Atkins & de Paula: Physical Chemistry (9th Edition)</p> <p>Miessler, Fischer, & Tarr: Inorganic Chemistry (5th Edition)</p>
Reference／参考文献	Shriver & Atkins: Inorganic Chemistry (5th edition)
Grading Policy／成績評価	<p>Class participation: 5%</p> <p>Homework exercises (5 x 5% = 25%)</p> <p>Final exam: 70%</p>
Other Remarks／コメント	"Participation" covers things like how well you contribute to class discussions.
Special Note／特記事項	Copies of the textbooks are available for loan from the International College
Office Hour／オフィスアワー	I can be contacted, in principal, at any time without special reservations. My office is room 510 of the IRB building, next door to the International College Office.
Messages to Prospective Students／受講生へのメッセージ	This course is designed to roughly correspond to the equivalent Japanese language-taught Introductory Chemistry A1 courses offered by the School of Science.

Instructor(s)

Instructor Name／教員氏名	Name (hiragana)／ふりがな	Affiliation, Title, Course／所属・職名・講座	Office／居室	Extension／内線	E-mail／e-mail
No data found					

Cautions for Students
