

THE FIRST CLASS WILL BE GIVEN AT 10 AM ON WEDNESDAY SEPTEMBER 2ND. TO PARTICIPATE IN THE LECTURE YOU MUST LOGIN TO BLACKBOARD COLLABORATE FOR THE COURSE INORGANIC CHEMISTRY 1. IF YOU CANNOT ENTER THE COURSE ON BLACKBOARD YOU MAY NOT BE REGISTERED FOR THE CLASS AND YOU SHOULD CHECK YOUR REGISTRATION STATUS.

ATTENDANCE IS AUTOMATICALLY TAKEN BY ACCESSIING THE LECTURE.

DURING THE LECTURES, I WILL INVITE QUESTIONS FROM THE CLASS FREQUENTLY, BUT REQUEST THAT YOU KEEP MICROPHONES ON MUTE UNTIL SUCH TIME AS YOU WISH TO ASK A QUESTION.

Course Title - **Inorganic Chemistry 1**

Full Course Number - **21:160:313 sec. 01**

Semester/Year - **Fall 2020**

Lecture format - **Remote synchronous lectures on Blackboard Collaborate**

Meeting Day(s) & Time(s) – **Mondays 10.00–11.20 am and Wednesdays 10.00–11.20 am.**

NOTE: TUESDAY SEPT. 8TH FOLLOWS A MONDAY SCHEDULE AND CLASS WILL BE HELD AT 10 AM THAT DAY. THERE WILL BE NO CLASS ON WEDNESDAY NOVEMBER 25TH

Final Exam: **TBD**

Instructor(s) Information:

Instructor Name – **John B. Sheridan**

Contact Information: jsheridn@rutgers.edu

Office Hours: **By appointment, available times will be announced on Bb.**

Required Textbook:

[Housecroft and Sharpe "Inorganic Chemistry" 4th Edition.](#)

Optional: Housecroft "Solutions Manual for Inorganic Chemistry"

Prerequisites

General Chemistry, 21-160-114,116.

Organic Chemistry 21-160-335,6 are also strongly recommended as pre-requisites, though not required.

Course Schedule

Topic	Lecture dates	Sections/Chapters
Basic Concepts: Atoms	9/2, 9/8	Chapter 1
Basic Concepts: Molecules	9/8, 9/9, 9/14	Chapter 2
Molecular Symmetry	9/16-9/27	Chapter 3
Bonding in Polyatomic Molecules	9/30 - 10/07	Chapter 5
Exam 1	10/12	
Experimental Techniques: NMR Spectroscopy	10/14-10/26	Chapter 4
Structures of Metallic and Ionic Solids	10/28-11/4	Chapter 6
Acids, Bases and Ions in Aqueous Solution	11/4 - 11/9	Chapter 7
Exam 2	11/23	
Hydrogen and some introductory Main Group Chemistry	11/11-12/9	Chapters 10 - 18
Final Exam (Cumulative)	TBA	

Quizzes, Exams and Grading

For most lectures, there will be two types of short quiz. Pre-lecture quizzes must be submitted before the lecture and involve a few questions on the main topics to be presented in the lecture. Post-lecture quizzes are designed to reinforce the principles learned in a lecture. The quizzes will be given online and must be completed within the specific time given. There will be no surprise quizzes.

There will two mid-terms and a final exam.

The Midterm Exams are during the class periods on Monday, October 12th and Monday November 23rd.

The Final Exam time has yet to be determined.

Makeup exams will only be given when legitimate reasons established by "University Policy" and are presented to me in writing. If you do not provide the proper documentation justifying your absence, a makeup exam will not be given.

Overall course grading will be determined as follows:

Quizzes 20%

Exam 1 20%

Exam 2 20%

Final exam (cumulative) 40 %

As a guide to what total score corresponds to a specific grade, the grade ranges and averages for this course given by Prof. Sheridan in F2019, F2016 and F2015 will be provided prior to the first exam.

Academic Integrity

As an academic community dedicated to the creation, dissemination, and application of knowledge, Rutgers University is committed to fostering an intellectual and ethical environment based on the principles of academic integrity. Academic integrity is essential to the success of the University's educational and research missions, and violations of academic integrity constitute serious offenses against the entire academic community. The entire Academic Integrity Policy can be found here: <http://academicintegrity.rutgers.edu/academic-integrity-policy/>

☐ Accommodation and Support Statement (The following statement and information is recommended for inclusion on all syllabi.):

Rutgers University Newark (RU-N) is committed to the creation of an inclusive and safe learning environment for all students. RU-N has identified the following resources to further the mission of access and support:

Students with Disabilities: Rutgers University welcomes students with disabilities into all of the University's educational programs. The Office of Disability Services (ODS) is responsible for the determination of appropriate accommodations for students who encounter barriers due to disability. In order to receive consideration for reasonable accommodations, a student with a disability must contact ODS, register, have an initial appointment, and provide documentation. Once a student has completed the ODS process (registration, initial appointment, and documentation submitted) and reasonable accommodations are determined to be necessary and appropriate, a Letter of Accommodation (LOA) will be provided to the student. The student must give the LOA to each course instructor, followed by a discussion with the instructor. This should be completed as early in the semester as possible as accommodations are not retroactive. More information can be found at ods.rutgers.edu. Contact ODS: (973) 353-5375 or ods@newark.rutgers.edu.

Religious Holiday Policy and Accommodations: Students are advised to provide timely notification to instructors about necessary absences for religious observances and are responsible for making up the work or exams according to an agreed-upon schedule. The Division of Student Affairs is available to verify absences for religious observance, as needed: (973) 353-5063 or DeanofStudents@newark.rutgers.edu.

Counseling Services: Counseling Center Room 101, Blumenthal Hall, (973) 353-5805 or <http://counseling.newark.rutgers.edu/>.

Students with Temporary Conditions/Injuries: Students experiencing a temporary condition or injury that is adversely affecting their ability to fully participate in their courses should submit a request for assistance at: <https://temporaryconditions.rutgers.edu>.

Students Who are Pregnant: The Office of Title IX and ADA Compliance is available to assist students with any concerns or potential accommodations related to pregnancy: (973) 353-1906 or TitleIX@newark.rutgers.edu.

Gender or Sex-Based Discrimination or Harassment: Students experiencing any form of gender or sex-based discrimination or harassment, including sexual assault, sexual harassment, relationship violence, or stalking, should know that help and support are available. To report an incident, contact the Office of Title IX and ADA Compliance: (973) 353-1906 or TitleIX@newark.rutgers.edu. To submit an incident report: tinyurl.com/RUNReportingForm. To speak with a staff member who is confidential and does **NOT** have a reporting responsibility, contact the Office for Violence Prevention and Victim Assistance: (973) 353-1918 or run.vpva@rutgers.edu.

❑ Learning Resources:

Rutgers Learning Center (tutoring services)

Room 140, Bradley Hall

(973) 353-5608

<https://sasn.rutgers.edu/student-support/tutoring-academic-support/learning-center>

Writing Center (tutoring and writing workshops)

Room 126, Conklin Hall

(973) 353-5847

nwc@rutgers.edu

<https://sasn.rutgers.edu/student-support/tutoring-academic-support/writing-center>