

CHEMISTRY 341

Descriptive Inorganic Chemistry

Prerequisite: CHEM 211, 212

Instructor:

Dr. George W. Mushrush

Office: Room 353, S&TI

Office Hours: M, W, and F 2:00 - 3:00

Chemistry 341 is a course that should enhance the education of any science major. The major purpose is to impart a conceptual understanding of the periodic chart. To this end, we will study:

1. The geochemistry of all naturally occurring elements.
2. The industrial and historical preparations of the elements.
3. The periodic properties of the elements.
4. The common reactions of the elements.
5. The industrial and commercial application of the elements.
6. The historical development of the periodic chart.

Progress will be assessed by three semester examinations and a final comprehensive examination. The dates are on the lecture schedule. It is important to note that NO makeup examinations will be given. Please schedule all illness around this schedule.

ASSESSMENT:

3 semester examinations = 65%

Final examination = 35%

All examinations will be of the essay type. In this course, essay means that all answers will be in terms of equations. Not a simple writing of equations, but a comparison of similarities and differences between elements, compounds and/or periodic families.

If you are interested in pursuing a chemistry minor at GMU, the requirements are quite simple. A chemistry minor requires 16 chemistry hours at the 300 or higher level. As Department Chairman, I would suggest:

CHEM 313,314,315, and 318 10 hours

CHEM 341 3 hours

CHEM 334 Or CHEM 463 3 hours

16 hours = A CHEMISTRY MINOR

**Lecture Schedule
Spring 2005**

<u>WEEK OF</u>	<u>TOPIC</u>
January 24	Hydrogen
31	Periodic Chart IA - VIIB
February 7	Periodic Chart IA - VIIB
14	Carbon
21	Oxygen
28	Nitrogen
March 7	Nitrogen, Silicon
14	SPRING BREAK
21	Silicon, Phosphorus
28	Sulfur
April 4	Halogens
11	Transition Metals IIIA-IIB
18	Transition Metals IIIA - IIB
25	Metallurgy
May 2	Metallurgy

EXAMINATIONS:

FEBRUARY 18, 2005

MARCH 23, 2005

APRIL 27, 2005

MAY 16, 2005 - FINAL EXAMINATION: (10:30 - 13:15, Monday)

TEXT: Purchased at the Copy Shop

