

CHE 318 Environmental Chemistry (3 cr)

Basic chemistry of soils, atmosphere and natural waters. Changes resulting from pollution discharges. Chemical perspectives on environmental problems. Prerequisite: CHE 120 and 122.

CHE 319 Quantitative Analysis Lab (1 cr)

A laboratory course involving the principles of quantitative analysis and an introduction to instrumental methods. Prerequisites: CHE 120 and 122. Corequisite: CHE 315.

CHE 321, 322 Physical Chemistry Lecture (4 crs ea)

Modern concepts of molecular structure, chemical thermodynamics, equilibrium and kinetics. Prerequisites: CHE 120/222, MAT 112, PHY 120

CHE 331, 332 Physical-Instrumental**Measurements Lab (1 cr ea)**

Experiments in physical-chemical measurements with an emphasis on instrumental methods. Prerequisites: CHE 122, CHE 232, PHY 122.

CHE 344, 345 Biochemical Lab Projects I & II (1 cr ea)

Directed experiments to illustrate basic testing procedures performed in hospitals and research biochemistry laboratories. Experimental test results related to actual patient case histories will provide for meaningful discussions about medical biochemistry in health and disease. Pre/Corequisite for I is CHE/BIO 314; Prerequisite for II is CHE 344.

CHE 401 Inorganic Chemistry (3 crs)

Modern concepts of bonding and structure in inorganic compounds, reactivity and reaction mechanisms, acid-base and solid state chemistry. Prerequisite: CHE 222.

CHE 405 Advanced Inorganic Chemistry (3 crs)

An advanced topics lecture course in inorganic chemistry. Prerequisites: CHE 401.

CHE 410 Advanced Biochemistry (3 crs)

An advanced topics lecture course in physical biochemistry. Prerequisite: CHE 314.

CHE 411 Inorganic Chemistry Laboratory (1 cr)

A laboratory course providing experience in the synthesis of significant inorganic compounds and the techniques of various experimental and spectroscopic methods. Corequisite: CHE 401.

CHE 415 Advanced Organic Chemistry (3 crs)

An advanced topics lecture course in physical-organic chemistry. Prerequisites: CHE 222.

CHE 420 Advanced Physical Chemistry (3 crs)

An advanced topics lecture course in physical chemistry. Prerequisite: CHE 322.

CHE 431, 432 Advanced Lab Techniques I & II (1 or 2 crs ea)

Directed experimental projects in the synthesis of organic and inorganic compounds. Emphasis on instrumental characterization. Prerequisite: CHE 317.

CHE 477, 478 Senior Research Project I and II (2 crs ea)

Directed research projects. A seminar and the satisfactory completion of an original paper are integral parts of each course. Prerequisite: Senior standing as a major.

CHE 450 Thesis

Completion of senior research project resulting in an undergraduate research thesis. Prerequisites: Senior standing, permission.

CHE 480 Seminar (1 cr)

Seminar presentations by faculty and chemists from industry and other academic institutions; student presentations on their undergraduate research and literature topics. Prerequisite: Senior standing as major or permission.

NOTE: Without passing grades in prerequisites, 400-level chemistry courses may be taken only on a credit/no-credit basis.

Classical Studies

Contact Person: Pamela Hedrick, Ph.D.

The Classical Studies minor at Wheeling Jesuit is designed to increase student's knowledge of the classical world. The political, economic, social, aesthetic, philosophical and religious mores of Western Civilization are ultimately traceable, in some form or another, to those of the classical age. Wheeling Jesuit promotes the understanding of these mores, as well as the passion for the intellectual and spiritual pursuit of truth expressed in the ancient authors, in its goal to develop educated women and men for others.

Requirements for the Classical Studies Minor

Greek or Latin Language	(6 crs)
Electives (3 crs. above the 100-level)	(9 crs)
400-level Capstone Course	(3 crs)
	<u>(18 crs)</u>

Listed below are potential Elective Courses. Others may also count toward this minor; please consult the contact person for additional information:

HIS 216:	The Ancient World -- Greece and Rome
LIT 320:	Mythology
POS 346:	Ancient Political Thought
RST 201:	Introduction to the New Testament
RST 301:	Studies in the New Testament
PHI 307:	Metaphysics I: Ancient
FAS 137:	Cinema and the Classical World
FAS 144:	Classical Art and Archaeology