

CHEM 1100 Architecture of Matter. 4 cr. F

CHEM 1101 Introduction to General Chemistry. 3 cr.

PREREQ: MATH 1108 or equivalent. F, S

CHEM 1102 Introduction to Organic and Biochemistry. 3 cr. PREREQ: CHEM 1101 or CHEM 1111 and CHEM 1111L.

COREQ: CHEM 1103. F, S

CHEM 1103 Introduction to General Organic and Biochemistry Laboratory. 1 cr. PREREQ: CHEM 1101 or CHEM 1111 and CHEM 1111L. COREQ: CHEM 1102. F, S

CHEM 1111 General Chemistry I. 4 cr. PREREQ or COREQ: CHEM 1111L. PREREQ: MATH 1143 or MATH 1147 or equivalent. F, S

CHEM 1111L General Chemistry I Lab. 1 cr. PRE-or-COREQ: CHEM 1111. F, S

CHEM 1112 General Chemistry II. 3 cr. PREREQ: CHEM 1111 and CHEM 1111L or equivalent and MATH 1143 or MATH 1147 or equivalent. F, S

CHEM 1112L General Chemistry II Lab. 1 cr. PRE-or-COREQ: CHEM 1112. F, S

CHEM 1199 Experimental Course. 1-6 cr.

CHEM 2211 Inorganic Chemistry I. 3 cr. PREREQ: CHEM 3301 or permission of instructor. F

CHEM 2213 Inorganic Chemistry I Laboratory. 1 cr. PREREQ: CHEM 3303 or permission of instructor. F

CHEM 2232 Quantitative Analysis. 2 cr. PREREQ: CHEM 1112, CHEM 1112L and MATH 1160 or MATH 1170. COREQ: CHEM 2234 or permission of instructor. S

CHEM 2234 Quantitative Analysis Laboratory. 2 cr. PREREQ: CHEM 1112 and CHEM 1112L. COREQ: CHEM 2232 or permission of instructor. S

CHEM 2299 Experimental Course. 1-6 cr.

CHEM 3301 Organic Chemistry I. 3 cr. PREREQ: CHEM 1112 and CHEM 1112L or permission of instructor. COREQ: CHEM 3303. F

CHEM 3302 Organic Chemistry II. 3 cr. PREREQ: CHEM 3301 or permission of instructor. PREREQ or COREQ: CHEM 3304. S

CHEM 3303 Organic Chemistry Laboratory I. 1 cr. COREQ: CHEM 3301 or permission of instructor. F

CHEM 3304 Organic Chemistry Laboratory II. 1 cr. PREREQ: CHEM 3303. COREQ: CHEM 3302 or permission of instructor. S

CHEM 3311 Introduction to Research. 1-2 cr. F, S

CHEM 3312 Introduction to Research. 1-2 cr. F, S

CHEM 3331 Instrumental Analysis. 2 cr. PREREQ: CHEM 2232 and CHEM 2234 or permission of instructor. F

CHEM 3334 Instrumental Analysis Laboratory. 2 cr. PREREQ: CHEM 2232, CHEM 2234 and CHEM 3331 or permission of instructor. S

CHEM 3335 Experimental Biochemistry. 1 cr.

CHEM 3341 Topics in Physical Chemistry I. 3 cr. PREREQ: CHEM 1112 and CHEM 1112L, MATH 1160 or MATH 1170, PHYS 1112 or PHYS 2212, or permission of instructor. F

CHEM 3342 Topics in Physical Chemistry II. 3 cr. PREREQ:

CHEM 3341 or permission of instructor. S

CHEM 3351 Physical Chemistry I. 3 cr. PREREQ:

CHEM 1112, CHEM 1112L, MATH 1175, and PHYS 2212. F

CHEM 3352 Physical Chemistry II. 3 cr. PREREQ: CHEM 3351. S

CHEM 3391 Seminar. 1 cr. PREREQ: CHEM 3301, CHEM 3303 or permission of instructor. R1

CHEM 4400 Practicum in Physical Sciences. 2 cr. PREREQ: Permission of department chair. D

CHEM 4401 Chemistry TA Seminar. 1 cr. F, S

CHEM 4407 Inorganic Chemistry II. 2 cr. PREREQ: CHEM 2211 PRE-OR-COREQ: CHEM 3352 or CHEM 3342, or permission of instructor. S

CHEM 4421 Topics in Laboratory Safety. 1 cr. PREREQ: CHEM 3303. S

CHEM 4433 Environmental Chemistry. 2 cr. PREREQ: CHEM 2232 and CHEM 2234 or permission of instructor. F

CHEM 4437 Environmental Chemistry Laboratory. 1 cr. COREQ: CHEM 4433 or permission of instructor. F

CHEM 4438 Experimental Biochemistry. 1 cr. PREREQ or COREQ: BIOL 4432 or BIOL/CHEM 4445. F, S

CHEM 4445 Biochemistry I. 3 cr. PREREQ: BIOL 1101 and CHEM 3302. F

CHEM 4447 Biochemistry II. 3 cr. PREREQ: BIOL/CHEM 4445. S

CHEM 4448 Advanced Experimental Biochemistry. 2 cr. PREREQ: BIOL 4437/CHEM 4438. COREQ: BIOL 4447. S

CHEM 4451 Physical Chemistry Laboratory I. 1 cr. COREQ: CHEM 3351. F

CHEM 4452 Physical Chemistry Laboratory II. 1 cr. COREQ: CHEM 3352. S

CHEM 4465 Synthetic Methods. 2 cr. PREREQ: CHEM 2211, CHEM 3302, and CHEM 3304. F

CHEM 4466 Synthetic Methods Laboratory. 2 cr. PRE-or-COREQ: CHEM 3365. F

CHEM 4470 Biorganic Chemistry. 3 cr. PREREQ: CHEM 3302 and CHEM 4445 or BIOL 4445. OS

CHEM 4481 Independent Problems in Chemistry. 1-4 cr. PREREQ: Permission of instructor. F

CHEM 4482 Independent Problems in Chemistry. 1-4 cr. PREREQ: Permission of instructor. S

CHEM 4485 Senior Research. 1-4 cr. PREREQ: Acceptance into the B.S./M.S. program. D

CHEM 4491 Seminar. 1 cr. COREQ: CHEM 4481, CHEM 4482, or CHEM 4485, or permission of instructor. F, S

CHEM 4498 Seminar in Biochemistry. 1 cr. PREREQ: Senior standing or permission of department. F, S

CHEM 4499 Experimental Course. 1-6 cr.

CHEM 5500 Practicum in Physical Science. 2 cr. PREREQ: Permission of the instructor.

CHEM 5507 Inorganic Chemistry II. 2 cr. PREREQ: CHEM 2211 and CHEM 3352 or permission of instructor.

CHEM 5521 Topics in Laboratory Safety. 1 cr. PREREQ: CHEM 3303. S

CHEM 5533 Environmental Chemistry. 2 cr.
COREQ: CHEM 5537. PREREQ: CHEM 2232 and CHEM 2234 or permission of instructor.

CHEM 5537 Environmental Chemistry Laboratory. 2 cr.
COREQ: CHEM 5533 or permission of instructor.

CHEM 5538 Experimental Biochemistry. 1 cr. PREREQ or COREQ: BIOL 5532 or BIOL/CHEM 5545.

CHEM 5545 Biochemistry I. 3 cr. PREREQ: Introductory Biology and Organic Chemistry or permission of instructor.

CHEM 5547 Biochemistry II. 3 cr. PREREQ: BIOL/CHEM 5545.

CHEM 5548 Advanced Experimental Biochemistry. 2 cr.
PREREQ: BIOL 5537/CHEM 5538. COREQ: BIOL/CHEM 5547.

CHEM 5565 Synthetic Methods. 2 cr. PREREQ: CHEM 2211, CHEM 3302, and CHEM 3304. F

CHEM 5566 Synthetic Methods Laboratory. 2 cr. PRE-or-COREQ: CHEM 3365. F

CHEM 5570 Biorganic Chemistry. 3 cr. PREREQ: CHEM 3302 and CHEM 4445 or BIOL 4445.

CHEM 5581 Independent Problems in Chemistry. 1-4 cr.
PREREQ: CHEM 3352.

CHEM 5582 Independent Problems in Chemistry. 1-4 cr.
PREREQ: CHEM 3352.

CHEM 5591 Seminar. 1 cr. COREQ: CHEM 5581 or CHEM 5582 or CHEM 4485 or permission of instructor.

CHEM 5599 Experimental Course. 1-6 cr.

CHEM 6601 Seminar. 1 cr.

CHEM 6609 Advanced Inorganic Chemistry. 3 cr. PREREQ: CHEM 4407 or CHEM 5507 or permission of instructor.

CHEM 6610 Special Topics in Chemistry. 1-3 cr.

CHEM 6615 Neutron Activation Analysis. 4 cr. PREREQ: Permission of instructor.

CHEM 6617 Environmental Geochemistry. 3 cr. PREREQ: GEOL 5520 or CHEM 3351.

CHEM 6621 Organic Reactions. 3 cr. PREREQ: CHEM 3302.

CHEM 6625 Quantitative Geochemistry Lab 3 cr.

CHEM 6630 Advanced Analytical Chemistry. 3 cr. PREREQ: CHEM 3302, CHEM 3304, CHEM 3334 and CHEM 3352 or permission of instructor.

CHEM 6635 Masters Research. 2-6 cr. PREREQ: CHEM 4485 or permission of instructor.

CHEM 6640 Research Techniques in Chemistry. 2-6 cr.

CHEM 6650 Thesis. 1-10 cr.

CHEM 6655 Advanced Physical Chemistry. 3 cr. PREREQ: CHEM 3302 and CHEM 3352 or permission of instructor.

CHEM 6671 Advanced Organic Chemistry. 3 cr. PREREQ: CHEM 3302 and CHEM 3352 or permission of instructor.

CHEM 6699 Experimental Course. 1-6 cr.

CHEM 8850 Doctoral Dissertation. 1-12 cr.