



Ferrum College Eight-Semester Plans

FERRUM COLLEGE B.S. DEGREE IN CHEMISTRY (Minor Required)

FRESHMAN (FALL)

Course Number	Credits
CHM 103 General Chemistry I	4
MTH 211 Calculus I or MTH 111 Pre-Calculus	3
BIO 110 Biology I	4
ENG 101 Composition and Rhetoric (grade of "C" or higher required)	3
GWS 101 Gateway Seminar	2
TOTAL	16

FRESHMAN (SPRING)

Course Number	Credits
CHM 104 General Chemistry II	4
MTH 221 Calculus II MTH 112 Pre-Calculus II	3
BIO 111 Introductory Biology II	4
ENG 102 Composition and Research (grade of "C" or higher required)	3
Liberal Arts Core (Activity)	1
TOTAL	15

SOPHOMORE (FALL)

Course Number	Credits
CHM 301 Organic Chemistry I	4
PHY 203 Fundamentals of Physics I (or MTH 211 Calculus I)	4 (or 3)
Liberal Arts Core (Literature)	3
Liberal Arts Core (Social Science)	3
Elective for Minor or Additional Major	3
TOTAL	16-17

SOPHOMORE (SPRING)

Course Number	Credits
CHM 302 Organic Chemistry II	4
PHY 204 Fundamentals of Physics II (or MTH 221 Calculus II)	4 (or 3)
Liberal Arts Core (History)	3
Liberal Arts Core (Fine Arts)	3
E-term	3
TOTAL	16-17

JUNIOR (FALL)

Course Number	Credits
CHM 341 Physical Chemistry (even) or CHM 305 Analytical Chemistry (odd)	3-4
NSM 398 Junior Seminar (SI, WI) (grade of "C" or higher required)	3
CHM Elective (or PHY 203)	3-4
Liberal Arts Core (REL/PHI)	3
Elective to Reach 121 Required Hours	3
TOTAL	15-17

JUNIOR (SPRING)

Course Number	Credits
CHM 342 Physical Chem II or CHM 425 Inorganic Chem	3-4
Chemistry Elective (or PHY 204)	3-4
Liberal Arts Core (Bible based)	3
Elective for Minor or Additional Major	3
Elective for Minor or Additional Major	3
TOTAL	15-17

SENIOR (FALL)

Course Number	Credits
CHM 305 Analytical Chemistry (odd) or CHM 341 Physical Chemistry (even)	3-4
NSM 498 Senior Seminar (SI, WI) (grade of "C" or higher required)	3
Liberal Arts Core (History)	3
Elective for Additional Minor or Major	3
Elective for Additional Minor or Major	3
TOTAL	15-16

SENIOR (SPRING)

Course Number	Credits
CHM 342 Physical Chem II or CHM 425 Inorganic Chem	3-4
CHM 315 Biochemistry	4
Elective to Reach 121 Required Hours	3
Elective for Minor or Additional Major	3
TOTAL	13-14

TOTAL HOURS REQUIRED FOR FERRUM COLLEGE B.S. DEGREE IN CHEMISTRY: 121-123