JMU Department of Chemistry and Biochemistry

ALL Majors And Concentrations

Major requirements (49-51 cr)

CHEM 131,132,135L,136L
CHEM 241,242,270,287L,288L
CHEM 331,351,361,481
MATH 235 (or 231+232),236
PHYS 240,250,240L,250L

Biophysical Chemistry major

Additional Major Requirements

CHEM 336L,363,367L,368L,432,482
BIO 140,240,480
MATH 237,238
At least Two Approved Electives

Chemistry major, Conc I-III: ACS Certified Programs

ACS Program Requirements

CHEM 352,352L,432,438L,482
Min 400 lab hrs - course & research

I: ACS Certified Chemistry

Additional Requirements

CHEM 470
MATH 237,238
At least 55 additional lab hrs

II: ACS Certified Biochemistry

Additional Requirements

BIO 140,240,245,480
CHEM 362,366L
(no additional lab hrs required)

III: ACS Certified Materials

Additional Requirements

CHEM 375,445,445L & ISAT 432
One: CHEM 485 or ENGR 314 or ENGR 498 or GEOL 390 (substitute for 438L)
MATH 237,238
At least 40 additional lab hrs

Chemistry major, Conc V: General Program

Additional Requirements

CHEM 336L,352,352L,482
At least ONE Upper Div Chem Elective

Chemistry major, Conc VI: Chem/Business Program

Additional Requirements

CHEM 336L,482
At least ONE Upper Div Chem Elective
ACCTG 244, CIS 204, ECON 201, ECON 200
FIN 345, MGT 305, MKTG 380, MATH 220

Chemistry major, Conc VII: Chem Ed/Secondary Ed

(4-year program for teacher licensure)

Additional Requirements

CHEM 325,336L,397, ISCI 173,
PSYC 160, WRTC 103, EDUC 165,300,310,
MSSE 240,303,425,450,460,47S0,471S,475,
480S,481S,495, LED 440

See Dr. Reisner as this program is modified

Revised April 2021