

Professional Emphasis Graduating Under the Old Catalog (Prior to Fall 2016)

Required Courses		Possible Substitutions	
CHM 115	4	_____	
CHM 116	5	_____	
CHM 222	3	_____	(may substitute CHM 221)
CHM 225	3	_____	(may substitute CHM 325)
CHM 245	4	_____	(see note below)
CHM 246	1	_____	(see note below)
CHM 247	3	_____	(see note below)
CHM 248	1	_____	(see note below)
CHM 356	3	_____	
CHM 358	3	_____	(see note below)
CHM 353	2	_____	(may substitute CHM 457)
CHM 355	1	_____	(may substitute CHM 352)
CHM 372	1	_____	(may substitute CHM 477)
CHM 471	3	_____	
CHM 461	4	_____	
CHM 391	1	_____	
CHM 491	1	_____	

Choose one of the following lecture electives:

CHM 441	3	_____	} CHM 421 or CHM 475
CHM 442	3	_____	
CHM 463	3	_____	
CHM 473	3	_____	

Take upper-level elective lab courses adding to 80 lab hours [lab hours shown in brackets]:

CHM 322 [42]	3	_____	} CHM 427 [56], CHM 447 [70], CHM 457 [56], and CHM 477 [70] may also be used to satisfy the lab hour requirement as long as these courses are not being used to substitute for a required course.
CHM 344 [42]	3	_____	
CHM 425 [28]	3	_____	
CHM 452 [70]	2	_____	
CHM 455 [28]	2	_____	
CHM 462 [84]	3	_____	
CHM 499 [42]	1	_____	
CHM 499 [84]	2	_____	

Cognates:

MTH 201	4	_____	
MTH 202	4	_____	
PHY 230	5	_____	(see note below)
PHY 231	5	_____	(see note below)

Students who transfer or change majors may make these substitutions with advisor approval:

- CHM 241 may replace CHM 245 and CHM 246
- CHM 242 may replace CHM 247 and CHM 248
- CHM 351 may replace CHM 358
- PHY 220 may replace PHY 230
- PHY 221 may replace PHY 231