

**Technical Emphasis Graduating Under Old Catalog (Prior to Fall 2016)**

**Required Courses**

CHM 115	4	_____
CHM 116	5	_____
CHM 222	3	_____
CHM 225	3	_____
CHM 245	4	_____
CHM 246	1	_____
CHM 247	3	_____
CHM 248	1	_____
CHM 311	3	_____
CHM 344	3	_____
CHM 351	3	_____
CHM 352	1	_____
CHM 425	3	_____
CHM 391	1	_____
CHM 491	1	_____

**Possible Substitutions**

(may substitute CHM 221)  
(may substitute CHM 325)  
(see note below)  
(see note below)  
(see note below)  
(may substitute CHM 321 or CHM 421 or CHM 442)  
(may substitute CHM 447)  
(may substitute CHM 356 and CHM 358)  
(may substitute CHM 353 or CHM 355 or CHM 455)  
(may substitute CHM 427)

**Choose one of the following electives:**

CHM 321	3	_____
CHM 322	3	_____
CHM 441	3	_____
CHM 442	3	_____
CHM 461	4	_____

CHM 421 (3 cr) or CHM 475 (3 cr) may be used to satisfy the elective requirement as long as these courses are not being used to substitute for another requirement.

**Cognates:**

MTH 201	4	_____
PHY 220	5	_____ (may substitute PHY 230)
PHY 221	5	_____ (may substitute PHY 231)
STA 215	3	_____

**Choose one of the following:**

CIS 160	3	_____
CIS 162	4	_____

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

- CHM 241 may replace CHM 245 and 246
- CHM 242 may replace CHM 247 and 248