

## Comparison of Common Chemistry Programs for students interested in Secondary Education

	<b>B.S. in CHEMISTRY w/ SEED Minor</b> (Licensure requires 5th yr MAT, not included below)			<b>B.S in CHEM &amp; SEED (4 yr)</b>
	<b>ACS - Chemistry, Conc I</b>	<b>ACS - Chem Ed, Conc IV</b>	<b>Chem - General, Conc V</b>	<b>Chem Ed Conc VII</b>
<b>MAJOR REQUIREMENTS</b>				
CHEM 131-132	x	x	x	x
CHEM 135L-136L	x	x	x	x
CHEM 241-242	x	x	x	x
CHEM 270	x	x	x	x
CHEM 287L-288L	x	x	x	x
CHEM 331	x	x	x	x
CHEM 336L			x	x
CHEM 351	x	x	x	x
CHEM 361	x	x	x	x
CHEM 481-482	x	x	x	CHEM 481 only
<b>PROGRAM SPECIFIC CHEMISTRY REQUIREMENTS</b>				
CHEM 325	x <sup>1</sup>	x	x <sup>1</sup>	x <sup>1</sup>
CHEM 352	x	x	x	
CHEM 352L	x	x	x	
CHEM 432	x	x		
CHEM 438L	x	x		
CHEM 470	x			
CHEM elective			x	
at least 400 lab hrs (required for all ACS programs)	x	x		
	<sup>1</sup> requirement for Secondary Education			
<b>COGNATE REQUIREMENTS</b>				
MATH 235 (or 231-232)	x	x	x	x
MATH 236	x	x	x	x
MATH 237-238	x			
PHYS 240-250	x	x	x	x
PHYS 240L-250L	x	x	x	x
<b>EDUCATION PROGRAM REQUIREMENTS - NON-CHEMISTRY</b>				
BIO elective	x <sup>ge,1</sup>	x <sup>ge</sup>	x <sup>ge,1</sup>	ISCI 173 <sup>ge</sup>
GEOL elective	x <sup>ge,1</sup>	x <sup>ge</sup>	x <sup>ge,1</sup>	
COE courses	8 courses <sup>ge,1</sup>	8 courses <sup>ge</sup>	8 courses <sup>ge,1</sup>	15 courses <sup>1</sup>
GenEd Ed Requirement				2 courses
	<sup>ge</sup> at least one course might also count toward General Education			
	<sup>1</sup> requirement for Secondary Education			
<b>CREDIT TOTALS</b>				
Major, Program, Cognate	72	89-91	60	52
Secondary Ed, in addition to major	29-31	29-31	29-31	61
GenEd not included above	28	28	28	25

It is the student's responsibility to meet any required pre- or co- requisites

updated Jan 2018