

Curriculum Guide			
Major: Chemistry – Option I – Professional Chemistry <sup>1</sup> (B.S.)			
2013-2014			
First Year		Second Year	
Semester 1	Semester 2	Semester 1	Semester 2
ENGL 1301 3 hrs.	ENGL 1302* or 2311* 3 hrs.	MATH 2414* 4 hrs.	CHEM 2525* (SP) 5 hrs.
MATH 1316*/2412*/ <sup>2</sup> 3-4 hrs.	MATH 2413* 4 hrs.	CHEM 2523* (FA) 5 hrs.	CORE 40 <sup>C</sup> 3 hrs.
CHEM 1411* 4 hrs.	CHEM 1412* 4 hrs.	CORE 60 <sup>C</sup> 3 hrs.	CORE 50 <sup>C</sup> 3 hrs.
CORE 60 <sup>C</sup> 3 hrs.	CORE 11 <sup>C</sup> 3 hrs.	CORE 70 <sup>C</sup> 3 hrs.	MATH 3340* (SP) 3 hrs.
CORE 90 <sup>C</sup> 1-3 hrs.			
14-17 hrs.	14 hrs.	15 hrs.	14 hrs.
Third Year		Fourth Year	
Semester 1	Semester 2	Semester 1	Semester 2
CHEM 3521* (FA ev. yrs) 5 hrs.	CHEM 3522* (SP odd yrs) 5 hrs.	CHEM 4323* (FA) 3 hrs.	CHEM 4397* 3 hrs.
CHEM 3511* (FA) 5 hrs.	PHYS 2426* (SP) 4 hrs.	CHEM 4223L* (FA) 2 hrs.	CHEM 4411* (SP ev. yrs) 4 hrs.
PHYS 2425* (FA) 4 hrs.	PHYS 3095 2 hrs.	CHEM 4431* (FA odd yrs) 4 hrs.	Elective 4-7 hrs.
Elective 3 hrs.	CORE 80 <sup>C</sup> 3 hrs.	CORE 70 <sup>C</sup> 3 hrs.	MPS 4370* 3 hrs.
		Elective 3 hrs.	
17 hrs.	14 hrs.	15 hrs.	14-17 hrs.

\* Indicates prerequisite(s).  
<sup>C</sup> See degree checklist for options.  
 ♦ Total degree hours must be 120; course may be required if degree hours are not otherwise accounted for.  
 FA=Fall only  
 SP=Spring only

**NOTE:** Course scheduling/rotation notes are not definitive and should be used for general planning purposes only. A number of factors can influence when courses are offered. Students should always seek the advice of their academic advisor before scheduling classes.

#### PREREQUISITE NOTES:

**CHEM 1411:** MATH 1314/1324

**CHEM 1412:** CHEM 1411

**CHEM 2523:** CHEM 1412

**CHEM 2525:** CHEM 2523

**CHEM 3511:** CHEM 1412

**CHEM 3521:** CHEM 1412 and MATH 2414. Eight hours of PHYS 1401 and 1402 or eight hours of PHYS 2425 and 2426.

**CHEM 3522:** CHEM 3521

**CHEM 4323:** CHEM 2525 or 2533 and consent of instructor

**CHEM 4431:** CHEM 3522

**CHEM 4223L:** CHEM 4323 or concurrent enrollment

**CHEM 4397:** CHEM 3511 and consent of instructor

**CHEM 4411:** prerequisite or concurrent enrollment in 3511, 3522

**ENGL 1302/2311:** ENGL 1301

**MATH 1316:** MATH 1314 or 1324

**MATH 2412:** ACT score of 24 or SAT 560 or above on math section or MATH 1314 or MATH 1324

**MATH 2413:** MATH 1316, 2412, or ACT score of 27, or SAT 620 or above on math section

**MATH 2414:** MATH 2413

**MATH 3340:** MATH 2414

**MPS 4370:** senior status and consent of instructor

**PHYS 2425:** MATH 2413 or concurrent enrollment

**PHYS 2426:** PHYS 2425 and MATH 2414 or concurrent enrollment in MATH 2414

#### ADDITIONAL NOTES:

<sup>1</sup>This option follows course recommendation of the American Chemical Society and prepares students for positions in industry, government and education. It is recommended for students planning to do graduate study in chemistry or seeking employment as chemists in industry.

<sup>2</sup>MATH 2412 is recommended over MATH 1316 for this degree plan