

## Mapping of Learning Goals to the Chemistry Curriculum

<b>KNOWLEDGE COMPETENCIES</b>				
<b>KEY: I = Introductory                      F= Foundational/ Intermediate                      D= In Depth</b>				
<i>Course</i>	<i>Structure and Properties</i>	<i>Synthesis, Reactivity And Transformation</i>	<i>Energy, Equilibrium, and Kinetics</i>	<i>Models and measurements</i>
1091/1101	I			I
1092/1102	I		I	I
1109	I		I	I
2050		F	F	F
2100	F		F	F
2250	F	I, F	F	I
2260	D	D	F	F
2310	F	F	F	F
2320	F	F	F	F
2400	F	F	F	F
2510			D	D
2520	F, D		D	D
3050	D		D	D
3060		D	D	
3100				D
3200		D		
3250	D			
3270	D		D	D
3310		D		
3400	D		D	D
3510	D		D	D
3520	D		D	D

### Mapping of Learning Goals to the Chemistry Curriculum

#### SKILL BASED COMPETENCIES – PART I

**KEY:** *I = Introductory*

*R= Reinforce/Practice*

*D= In Depth*

**\*\* completion of cores: 2250, 2100, 2400 and 2510 or 2520**

<i>Course</i>	<i>Apply Problem Solving Strategies (#1)</i>	<i>Safety &amp; Responsible in Laboratory Activities (#2)</i>	<i>Document Laboratory Activities, Manage Data (#3)</i>	<i>Use &amp; understand instrumentation (#4)</i>	<i>Interpret Complex Datasets (#5)</i>
1091/1101	I	I	I	I	
1092/1102	I	I	I	I	
1109	I	I	I	I	
2050	I	I	I	I	
2100	R	R	R	I,R	
2250	R	R, D**	R, D**	I, R	R
2260	I	I, D**	I D**	I	I
2310	R	R	R	R	R
2320	R				R
2400	R	R	R	R	R
2510	R	R, D**	R, D**	I, R	R
2520	R	R, D**	R, D**	R	R
3050	R	R, D**	R, D**	R	R
3060	D				D
3100	D				D
3200	R, D			R, D	
3250	D				
3270	D			D	D
3310	D				D
3400	D				D
3510	D				D
3520	D				D
4000	D	D	D	D	D

### Mapping of Learning Goals to the Chemistry Curriculum

<b>SKILL BASED COMPETENCIES – PART II</b>					
<b>KEY: I = Introductory</b>		<b>R= Reinforce/Practice</b>		<b>D= In Depth</b>	
** completion of cores: 2250, 2100, 2400 and 2510 or 2520					
Course	Understand and Apply Models (#6)	Search, Engage & Evaluate Scientific Literature (#7)	Effective written, visual and oral communication (#8)	Work Collaboratively (#9)	Independent Design & Implementation (#10)
1091/1101	I			I	
1092/1102	I		I	I	
1109	I		I	I	
2050			I	I	I
2100	R	I	I	I	I
2250	I				
2260	R	I			I
2310	R	R	R	R	
2320	R	R	R	R	R
2400	R	I	R	R	
2510	R, D	R	R	R	
2520	R, D	R	R	R	
3050	D	R	R		R
3060		R	R		
3100	R, D	D	R	D	
3200		R, D	R		
3250			R		D
3270	D	D	D		
3310		R, D	R, D		R, D
3400	D	D	D		
3510	D	D	D		D
3520	D	D	D		D
4000	D	D	D	D	D