Curriculum Map for Writing in Chemistry

Skills \ Courses	General Chemistry Lab	Organic Chemistry Lab	Analytical Chemistry Lab	Biochemistry	Research		Physical Chemistry							
Key = I = introduced, D = developed, M = mastered					(summer, semester)	(major honors)	CHM 135 (Life Science P Chem)'	Computational P Chem Lab (131)	Experimental P Chem Lab (133)	Riochemietry N	Advanced Methods in Chemistry	Inorganic Chemistry (lecture)	Advanced Organic Chemistry	Seminar
Writing														
Write well (organized, Present a compelling narrative with data at appropriate level of detail that flows well)	1	D	D,M	1	?	М	х	D, M	D, M	x	М	x	М	x
Presents data effectively (descibes "results" effectively in words)	1	D	D,M	D	?	M	Х	D	M	X	М	х	M	×
Analyzes data effectively (informative "discussion" of the results)	1	D	D, M	D	?	M	Х	D, M	D, M	X	М	х	M	×
Writes for a professional audience (journal article, research report)	X	X	I, D, M	Х	?	М	Х	D	M	X	М	X	D, M	Х
Employs appropriate stylistic conventions (syntax, significant figures, voice, formats equations, tables, schemes, figures, etc.)	1	1	I, D, M	1	?	М	х	D	D, M	D	М	х	D, M	х
Clearly describes the methods employed ("experimental" or "methods" section)	х	1	D, M	х	?	М	х	x	D	X	М	x	М	x
Summarizes scientific work effectively (e.g. abstract and conclusions)	1	X	I, D	X	?	M	Х	X	D, M	x	М	х	M	×
Keeps clear complete and organized notebook entries	1	D	D	D	?	M	Х	X	D	X	D	X	D	×
Provides an appropriate framework for the study, including discussion of the literature (introduction)	1	1	I, D	1	?	М	x	D, M	D	D	М	×	D, M	×
Cites appropriate literature using ACS style	Х	ı	I, D	I.	?	M	Х	D, M	D	D	D	Х	D, M	×
Communicates science effectively for a general audience	Х	X	Х	X	?	Х	Х	Х	X	Х	Х	Х	Х	I,D
Writing lab reports/articles	Y	Y	Υ	Y	Υ	Y	N	Y	Y	N	Υ	N	Y	Y
Writing proposals	N	N	N	N	N	N	N	Y	N	N	N	N	N	N
Writing review articles	N	Y	N	N	N	N	N	N	N	Y	Y	N	N	N
Do students revise writing assignments in this course?	N	N	Υ	N	N	N	N	N	N	N	Υ	N	N	N
Is student writing peer-reviewed?	Υ	N	N	N	N	N	N	N	N	N	N	N	N	N