Colorado State University – Department of Chemistry

BS/MS in Chemistry Program Prerequisite Courses

Minimum requirements for admission to the B.S./M.S. program in Chemistry

1. Complete at least 75 credit hours, of which at least 15 credits must be from upper division (300+) courses
2. A cumulative GPA of 3.0 or above
3. Completion of the following courses or equivalent transfer courses:

Chemistry		**Credits**	**Prerequisite(s)**
_____ CHEM 111	General Chemistry I (F, S, SS)	4	MATH 118
_____ CHEM 112	General Chemistry I Laboratory (F, S, SS)	1	CHEM 111 or concurrent registration
_____ CHEM 113	General Chemistry II (F, S, SS)	3	CHEM 107 or CHEM 111; MATH 124
_____ CHEM 114	General Chemistry II Laboratory (F, S, SS)	1	CHEM 108 or CHEM 112; CHEM 113 or concurrent registration
_____ CHEM 345	Organic Chemistry I (F)	4	CHEM 113
_____ CHEM 346	Organic Chemistry II (S)	4	CHEM 345
	– OR –		
_____ CHEM 341	Modern Organic Chemistry I (F, S, SS)	3	CHEM 113
_____ CHEM 343	Modern Organic Chemistry II (F, S, SS)	3	CHEM 341
_____ CHEM 344	Modern Organic Chemistry Lab (F, S, SS)	2	CHEM 114; CHEM 343 or concurrent registration
_____ CHEM 335	Introduction to Analytical Chemistry (F, S)	3	CHEM 113; concurrent registration in CHEM 334
_____ CHEM 334	Quantitative Analysis Laboratory (F, S)	1	CHEM 114; concurrent registration in CHEM 335
_____ CHEM 474	Physical Chemistry I (F)	3	CHEM 113; MATH 261; PH 142; concurrent registration in CHEM 475
_____ CHEM 475	Physical Chemistry Laboratory I (F)	1	CBE 333 or CHEM 334; CHEM 474 or concurrent registration or CBE 310 or concurrent registration
_____ MATH 160	Calculus for Physical Scientists (F, S, SS)	4	MATH 124; MATH 126
_____ MATH 161	Calculus for Physical Scientists II (F, S, SS)	4	MATH 160
_____ PH 141	Physics for Scientists and Engineers I (F, S, SS)	5	MATH 126; MATH 160 or concurrent registration
_____ PH 142	Physics for Scientists and Engineers II (F, S, SS)	5	PH 141; MATH 161 or concurrent registration