Recommended Sequence of Chemistry Courses with Total Number of Credits for Each Track

Track 1 (Major Specialization in Chemistry):

Year	Fall	Spring
Freshman	105/105LQ (4) (gen chem I) Math-112 (4)*	106/106L (4) (o-chem I)
Sophomore	205/205L (4) (o-chem II) 201W (4) (writing course)	206/206L (4) (gen chem II) 212 (3) (structure and spectroscopy)
	Phys-111 (4)	Phys-112 (4)
Junior	309/309L (4) (p-chem I) 315/315L (4) (analytical)	310/310L (4) (p-chem II) 322/322L (4) (inorganic)
Senior	4xxW (3) (one advanced course)*	
	Total credits = 54	
	* taken in fall or spring	

Track 1 (Major Specialization in Chemistry - Accelerated):

Year	Fall	Spring
Freshman	151/151LQ (4) (adv. gen chem) Math-112 (4)*	106/106L (4) (o-chem I)
Sophomore	205/205L (4) (o-chem II) 201W (4) (writing course) Phys-111 (4)	212 (3) (structure and spectroscopy) 322/322L (4) (inorganic)[#] Phys-112 (4)
Junior	309/309L (4) (p-chem I) 315/315L (4) (analytical)	310/310L (4) (p-chem II)
Senior	4xxW (3) (one advanced course)*	
	Total credits = 50	
	# students could take 310/310L in spring of sophomore year instead * taken in fall or spring	

Track 2 (American Chemical Society Certified Major):

Year	Fall	Spring
Freshman	105/105LQ (4) (gen chem I) Math-112 (4)*	106/106L (4) (o-chem I)
Sophomore	205/205L (4) (o-chem II) 201W (4) (writing course)	206/206L (4) (gen chem II) 212 (3) (structure and spectroscopy)
	Phys-111 (4)	Phys-112 (4)
Junior	309/309L (4) (p-chem I) 315/315L (4) (analytical)	310/310L (4) (p-chem II) 322/322L (4) (inorganic)
Senior	491W (4) ^ (research) or 380 (3) or 381 (3) or 390 (3) 4xxW (3) (one of the advanced courses)* 4xxW (3) (one of the advanced courses)*	

Total credits = 60 or 61

* taken fall or spring
^ many students will go on to take 492W

Track 2 (American Chemical Society Certified Major - Accelerated):

Year	Fall	Spring
Freshman	151/151LQ (4) (adv. gen chem) Math-112 (4)*	106/106L (4) (o-chem I)
Sophomore	205/205L (4) (o-chem II)	212 (3) (structure and spectroscopy)
	201W (4) (writing course) Phys-111 (4)	322/322L (4) (inorganic)[#] Phys-112 (4)
Junior	309/309L (4) (p-chem I) 315/315L (4) (analytical)	310/310L (4) (p-chem II)
Senior	491W (4) ^ (research) or 380 (3) or 381 (3) or 390 (3) 4xxW (3) (one of the advanced courses)* 4xxW (3) (one of the advanced courses)*	

Total credits = 56 or 57

students could take 310/310L in spring of sophomore year instead
* taken fall or spring
^ many students will go on to take 492W

Track 3 (Specialization in Chemistry for Medical School and Allied Fields):

Year	Fall	Spring
Freshman	105/105LQ (4) (gen chem I) Bio-111WQ (4)	106/106L (4) (o-chem I) Bio-212WQ (4)
Sophomore	205/205L (4) (o-chem II) 201W (4) (writing course) Math-112 (4)	206/206L (4) (gen chem II) 212 (3) (structure and spectroscopy)
Junior	315/315L (4) (analytical) Phys-111 (4)	322/322L (4) (inorganic) Phys-112 (4)
Senior	309/309L (4) (p-chem I) 424W (3) (adv. biological chem) or BCMB-351 (4)	310/310L (4) (p-chem II)

Total credits = 62 or 63

Track 3 (Specialization in Chemistry for Medical School and Allied Fields - Accelerated):

Year	Fall	Spring
Freshman	151/151LQ (4) (adv. gen chem) Bio-111WQ (4)	106/106L (4) (o-chem I) Bio-212WQ (4)
Sophomore	205/205L (4) (o-chem II) 201W (4) (writing course) Math-112 (4)	212 (3) (structure and spectroscopy) 322/322L (4) (inorganic)[#]
Junior	315/315L (4) (analytical) Phys-111 (4)	Phys-112 (4)
Senior	309/309L (4) (p-chem I) 424W (3) (adv. biological chem) or BCMB-351 (4)	310/310L (4) (p-chem II)[#]

Total credits = 58 or 59

students could take 310/310L in spring of sophomore or junior year instead

Track 4 (Specialization in Chemistry for Science Teaching):

Year	Fall	Spring
Freshman	105/105LQ (4) (gen chem I) Math-112* (4)	106/106L (4) (o-chem I) ENV-100* (4)
Sophomore	205/205L (4) (o-chem II) 201W (4) (writing course)	206/206L (4) (gen chem II) 212 (3) (structure and spectroscopy)
	Phys-111 (4) *PSYC-100¶ (4)*	Phys-112 (4) *EDUC-202¶ (4)* *MCS-102¶ (3)*
Junior	309/309L (4) (p-chem I) 315/315L (4) (analytical) *EDUC/PSYC-265¶ (4)* *EDUC-344¶ (4)*	310/310L (4) (p-chem II) 322/322L (4) (inorganic) *EDUC-443¶ (2)* *EDUC-441¶ (4)*
Senior	*EDUC-405¶ (12)(student teaching)* *EDUC-406¶ (2)*	4xxW (3) (adv course)

Total credits = 58

¶ courses required for certification, not included in total credits
* taken in fall or spring

Track 4 (Specialization in Chemistry for Science Teaching - Accelerated):

Year	Fall	Spring
Freshman	151/151LQ (4) (adv gen chem) Math-112* (4)	106/106L (4) (o-chem I) ENV-100* (4)
Sophomore	205/205L (4) (o-chem II)	212 (3) (structure and spectroscopy)
	201W (4) (writing course) Phys-111 (4) *PSYC-100¶ (4)*	322/322L (4)[#] (inorganic) Phys-112 (4) *EDUC-202¶ (4)* *MCS-102¶ (3)*
Junior	309/309L (4) (p-chem I) 315/315L (4) (analytical) *EDUC/PSYC-265¶ (4)* *EDUC-344¶ (4)*	310/310L (4)[#] (p-chem II) *EDUC-443¶ (2)* *EDUC-441¶ (4)*
Senior	*EDUC-405¶ (12)(student teaching)* *EDUC-406¶ (2)*	4xxW (3) (adv course)

Total credits = 54

students could take 310/310L in spring of sophomore year instead
¶ courses required for certification, not included in total credits
* taken in fall or spring