

B.S.Chem., beginning with MATH 425

Year One: Fall Semester (17 cr.)		Year One: Spring Semester (16 cr.)	
CHEM 400	First-Year Seminar (1 cr.)	CHEM 404	General Chemistry II (4 cr.)
CHEM 403	General Chemistry I (4 cr.)	MATH 426	Calculus II (4 cr.)
MATH 425	Calculus I (4 cr.)	PHYS 408	General Physics II (4 cr.)
PHYS 407	General Physics I (4 cr.)	ENGL 401W	First-Year Writing (4 cr.)
	Discovery (4 cr.) ¹		
Year Two: Fall Semester (18 cr.)		Year Two: Spring Semester (15 cr.)²	
CHEM 517	Quantitative Analysis (4 cr.)	CHEM 548	Organic Chemistry II (3 cr.)
CHEM 518	Quantitative Analysis Lab (1 cr.)	CHEM 550	Organic Chemistry II Lab (2 cr.)
CHEM 547	Organic Chemistry I (3 cr.)	CHEM 574	Chem. Across the Per. Table (4 cr.)
CHEM 549	Organic Chemistry I Lab (2 cr.)	CHEM 576	Experimental Inorganic Chem. (2 cr.)
	Discovery (4 cr.) ¹		Discovery (4 cr.) ¹
	Discovery (4 cr.) ¹		
Year Three: Fall Semester (17 cr.)²		Year Three: Spring Semester (18 cr.)²	
CHEM 683	Physical Chemistry I (3 cr.)	CHEM 684	Physical Chemistry II (3 cr.)
CHEM 685	Physical Chemistry I Lab (2 cr.)	CHEM 686	Physical Chemistry II Lab (2 cr.)
CHEM 755	Adv. Organic Chemistry (3 cr.)	CHEM 762	Instr. Meth. of Chem. Analysis. (3 cr.)
CHEM 774	Adv. Inorganic Chemistry (3 cr.)	CHEM 763	Instrumental Lab (2 cr.)
CHEM 777	Synthetic Chemistry (2 cr.)		Discovery (4 cr.) ^{1,3}
	Discovery (4 cr.) ^{1,3}		Elective (4 cr.) ^{1,3,4}
Year Four: Fall Semester (14 cr.)		Year Four: Spring Semester (13 cr.)	
CHEM 776	Physical Chemistry III (3 cr.)	CHEM 798W	Senior Seminar (1 cr.)
CHEM 799W	Thesis Research (4 cr.)	CHEM 799W	Thesis Research (4 cr.)
BMCB 658 ^{5,6}	General Biochemistry (3 cr.)		Elective (4 cr.) ^{1,4}
	Elective (4 cr.) ^{1,4}		Elective (4 cr.) ^{1,4}

¹One of these Discovery or Elective courses must be a Writing-Intensive (WI) course.

²Depending on course loads, these are excellent semesters to enroll in INCO 590/790 to earn credit for independent research.

³One or two of these Discovery/Elective course slots could be moved to Year Four, at the discretion of the student.

⁴Electives can range in credit amounts. 4-cr. electives are required here if no additional credits have been accumulated.

⁵Although it is not required for the B.S.Chem. degree, students interested in Biochemistry can enroll concurrently in BMCB 659, General Biochemistry Lab (2 cr.)

⁶BMCB 658 counts as a Biological Sciences Discovery course for B.S.Chem. majors.

<i>B.S.Chem., beginning with MATH 425 (unsure of major)</i>			
Year One: Fall Semester (17 cr.)		Year One: Spring Semester (16 cr.)	
CHEM 400	First-Year Seminar (1 cr.)	CHEM 404	General Chemistry II (4 cr.)
CHEM 403	General Chemistry I (4 cr.)	MATH 426	Calculus II (4 cr.)
MATH 425	Calculus I (4 cr.)	PHYS 407	General Physics I (4 cr.)
	Discovery (4 cr.) ¹	ENGL 401W	First-Year Writing (4 cr.)
	Discovery (4 cr.) ¹		
Year Two: Fall Semester (18 cr.)		Year Two: Spring Semester (15 cr.)²	
CHEM 517	Quantitative Analysis (4 cr.)	CHEM 548	Organic Chemistry II (3 cr.)
CHEM 518	Quantitative Analysis Lab (1 cr.)	CHEM 550	Organic Chemistry II Lab (2 cr.)
CHEM 547	Organic Chemistry I (3 cr.)	CHEM 574	Chem. Across the Per. Table (4 cr.)
CHEM 549	Organic Chemistry I Lab (2 cr.)	CHEM 576	Experimental Inorganic Chem. (2 cr.)
PHYS 408	General Physics II (4 cr.)		Discovery (4 cr.) ¹
	Discovery (4 cr.) ¹		
Year Three: Fall Semester (17 cr.)²		Year Three: Spring Semester (18 cr.)²	
CHEM 683	Physical Chemistry I (3 cr.)	CHEM 684	Physical Chemistry II (3 cr.)
CHEM 685	Physical Chemistry I Lab (2 cr.)	CHEM 686	Physical Chemistry II Lab (2 cr.)
CHEM 755	Adv. Organic Chemistry (3 cr.)	CHEM 762	Instr. Meth. of Chem. Analysis. (3 cr.)
CHEM 774	Adv. Inorganic Chemistry (3 cr.)	CHEM 763	Instrumental Lab (2 cr.)
CHEM 777	Synthetic Chemistry (2 cr.)		Discovery (4 cr.) ^{1,3}
	Discovery (4 cr.) ^{1,3}		Elective (4 cr.) ^{1,3,4}
Year Four: Fall Semester (14 cr.)		Year Four: Spring Semester (13 cr.)	
CHEM 776	Physical Chemistry III (3 cr.)	CHEM 798W	Senior Seminar (1 cr.)
CHEM 799W	Thesis Research (4 cr.)	CHEM 799W	Thesis Research (4 cr.)
BMCB 658 ^{5,6}	General Biochemistry (3 cr.)		Elective (4 cr.) ^{1,4}
	Elective (4 cr.) ^{1,4}		Elective (4 cr.) ^{1,4}
¹ One of these Discovery or Elective courses must be a Writing-Intensive (WI) course. ² Depending on course loads, these are excellent semesters to enroll in INCO 590/790 to earn credit for independent research. ³ One or two of these Discovery/Elective course slots could be moved to Year Four, at the discretion of the student. ⁴ Electives can range in credit amounts. 4-cr. electives are required here if no additional credits have been accumulated. ⁵ Although it is not required for the B.S.Chem. degree, students interested in Biochemistry can enroll concurrently in BMCB 659, General Biochemistry Lab (2 cr.) ⁶ BMCB 658 counts as a Biological Sciences Discovery course for B.S.Chem. majors.			

Note: This “unsure of major” pathway is for those students who, at the start of their career at UNH, are considering other majors outside the College of Engineering and Physical Sciences. This pathway delays the taking of PHYS 407, which could be inappropriate (or not required) of others majors, in favor of taking additional Discovery courses.

B.S.Chem., beginning with MATH 418

Year One: Fall Semester (17 cr.)		Year One: Spring Semester (16 cr.)	
CHEM 400	First-Year Seminar (1 cr.)	CHEM 404	General Chemistry II (4 cr.)
CHEM 403	General Chemistry I (4 cr.)	MATH 425	Calculus I (4 cr.)
MATH 418	Analysis and App. Functions (4 cr.)	PHYS 407	General Physics I (4 cr.)
	Discovery (4 cr.) ¹	ENGL 401W	First-Year Writing (4 cr.)
	Discovery (4 cr.) ¹		
Year Two: Fall Semester (18 cr.)		Year Two: Spring Semester (15 cr.)²	
CHEM 517	Quantitative Analysis (4 cr.)	CHEM 548	Organic Chemistry II (3 cr.)
CHEM 518	Quantitative Analysis Lab (1 cr.)	CHEM 550	Organic Chemistry II Lab (2 cr.)
CHEM 547	Organic Chemistry I (3 cr.)	CHEM 574	Chem. Across the Per. Table (4 cr.)
CHEM 549	Organic Chemistry I Lab (2 cr.)	CHEM 576	Experimental Inorganic Chem. (2 cr.)
MATH 426	Calculus II (4 cr.)		Discovery (4 cr.) ¹
PHYS 408	General Physics II (4 cr.)		
Year Three: Fall Semester (17 cr.)²		Year Three: Spring Semester (18 cr.)²	
CHEM 683	Physical Chemistry I (3 cr.)	CHEM 684	Physical Chemistry II (3 cr.)
CHEM 685	Physical Chemistry I Lab (2 cr.)	CHEM 686	Physical Chemistry II Lab (2 cr.)
CHEM 755	Adv. Organic Chemistry (3 cr.)	CHEM 762	Instr. Meth. of Chem. Analysis. (3 cr.)
CHEM 774	Adv. Inorganic Chemistry (3 cr.)	CHEM 763	Instrumental Lab (2 cr.)
CHEM 777	Synthetic Chemistry (2 cr.)		Discovery (4 cr.) ^{1,3}
	Discovery (4 cr.) ^{1,3}		Discovery (4 cr.) ^{1,3}
Year Four: Fall Semester (14 cr.)		Year Four: Spring Semester (13 cr.)	
CHEM 776	Physical Chemistry III (3 cr.)	CHEM 798W	Senior Seminar (1 cr.)
CHEM 799W	Thesis Research (4 cr.)	CHEM 799W	Thesis Research (4 cr.)
BMCB 658 ^{4,5}	General Biochemistry (3 cr.)		Elective (4 cr.) ^{1,6}
	Elective (4 cr.) ^{1,6}		Elective (4 cr.) ^{1,6}

¹One of these Discovery or Elective courses must be a Writing-Intensive (WI) course.

²Depending on course loads, these are excellent semesters to enroll in INCO 590/790 to earn credit for independent research.

³One or two of these Discovery/Elective course slots could be moved to Year Four, at the discretion of the student.

⁴Although it is not required for the B.S.Chem. degree, students interested in Biochemistry can enroll concurrently in BMCB 659, General Biochemistry Lab (2 cr.)

⁵BMCB 658 counts as a Biological Sciences Discovery course for B.S.Chem. majors.

⁶Electives can range in credit amounts. 4-cr. electives are required here if no additional credits have been accumulated.

B.S.Chem., completing suggested pre-medicine courses, beginning with MATH 425

Year One: Fall Semester (17 cr.)		Year One: Spring Semester (16 cr.)	
CHEM 400	First-Year Seminar (1 cr.)	CHEM 404	General Chemistry II (4 cr.)
CHEM 403	General Chemistry I (4 cr.)	MATH 426	Calculus II (4 cr.)
MATH 425	Calculus I (4 cr.)	PHYS 408	General Physics II (4 cr.)
PHYS 407	General Physics I (4 cr.)	ENGL 401W	First-Year Writing (4 cr.)
	Discovery (4 cr.) ^{1,2}		
Year Two: Fall Semester (18 cr.)		Year Two: Spring Semester (17 cr.) ³	
CHEM 517	Quantitative Analysis (4 cr.)	CHEM 548	Organic Chemistry II (3 cr.)
CHEM 518	Quantitative Analysis Lab (1 cr.)	CHEM 550	Organic Chemistry II Lab (2 cr.)
CHEM 547	Organic Chemistry I (3 cr.)	CHEM 574	Chem. Across the Per. Table (4 cr.)
CHEM 549	Organic Chemistry I Lab (2 cr.)	CHEM 576	Experimental Inorganic Chem. (2 cr.)
	Discovery (4 cr.) ^{1,2}	INCO 430	Healthcare Professions Seminar (2 cr.)
	Discovery (4 cr.) ^{1,2}		Discovery (4 cr.) ^{1,2}
Year Three: Fall Semester (15 cr.) ³		Year Three: Spring Semester (18 cr.) ³	
CHEM 683	Physical Chemistry I (3 cr.)	CHEM 684	Physical Chemistry II (3 cr.)
CHEM 685	Physical Chemistry I Lab (2 cr.)	CHEM 686	Physical Chemistry II Lab (2 cr.)
CHEM 755	Adv. Organic Chemistry (3 cr.)	BMCB 658	General Biochemistry (3 cr.)
CHEM 774	Adv. Inorganic Chemistry (3 cr.)	BMCB 659 ⁵	General Biochemistry Lab (2 cr.)
BIOL 411 ⁴	Intro Biol: Molecular/Cellular (4 cr.)	BIOL 412 ⁴	Intro Biol: Evol Biodiv & Ecol (4 cr.)
			Discovery (4 cr.) ^{1,2}
Year Four: Fall Semester (13 cr.)		Year Four: Spring Semester (14 cr.)	
CHEM 776	Physical Chemistry III (3 cr.)	CHEM 762	Instr. Meth. of Chem. Analysis. (3 cr.)
CHEM 777	Synthetic Chemistry (2 cr.)	CHEM 763	Instrumental Lab (2 cr.)
CHEM 799W	Thesis Research (4 cr.)	CHEM 798W	Senior Seminar (1 cr.)
BIOL 528 ⁵	Applied Biostatistics I (4 cr.)	CHEM 799W	Thesis Research (4 cr.)
			Discovery (4 cr.) ¹

¹One of these Discovery or Elective courses must be a Writing-Intensive (WI) course.

²Using these Discovery course slots, you should take a Psychology course, a Sociology course, and an additional English course. See additional notes below.

³Depending on course loads, these are excellent semesters to enroll in INCO 590/790 to earn credit for independent research.

⁴BIOL 411/412 is not a sequence. These courses can be taken in the reverse order.

⁵These courses are not explicitly required by medical schools; however they are highly recommended.

Fulfilling
Discovery
Program
requirements
with suggested
pre-medicine
courses:

- *Introduction to Psychology* (PYSC 401) counts as a SS Discovery
- *Pioneers of Psychology* (PYSC 571) counts as a HP Discovery
- *Introductory Sociology* (SOC 400) counts as a SS Discovery
- *Contemporary Social Problems* (SOC 540) counts as a SS Discovery
- *Environment and Society* (SOC 565) counts as an ETS Discovery
- Many ENGL courses count as FPA and HUMA Discoveries
- *Law, Medicine, and Ethics* (PHIL 660) is a Writing-Intensive course
- *Medical Sociology* (SOC 635) is a Writing-Intensive course
- *Medical Terminology* (BSCI 432) is neither a Discovery nor a Writing-Intensive course

B.S.Chem., completing suggested pre-medicine courses, beginning with MATH 418¹

Year One: Fall Semester (17 cr.)		Year One: Spring Semester (16 cr.)	
CHEM 400	First-Year Seminar (1 cr.)	CHEM 404	General Chemistry II (4 cr.)
CHEM 403	General Chemistry I (4 cr.)	MATH 425	Calculus I (4 cr.)
MATH 418	Analysis and App. Functions (4 cr.)	BIOL 412 ²	Intro Biol: Evol Biodiv & Ecol (4 cr)
BIOL 411 ²	Intro Biol: Molecular/Cellular (4 cr.)	ENGL 401W	First-Year Writing (4 cr.)
	Discovery (4 cr.) ^{3,4}		
Year Two: Fall Semester (18 cr.)		Year Two: Spring Semester (17 cr.) ⁵	
CHEM 517	Quantitative Analysis (4 cr.)	CHEM 548	Organic Chemistry II (3 cr.)
CHEM 518	Quantitative Analysis Lab (1 cr.)	CHEM 550	Organic Chemistry II Lab (2 cr.)
CHEM 547	Organic Chemistry I (3 cr.)	CHEM 574	Chem. Across the Per. Table (4 cr.)
CHEM 549	Organic Chemistry I Lab (2 cr.)	CHEM 576	Experimental Inorganic Chem. (2 cr.)
MATH 426	Calculus II (4 cr.)	PHYS 407	General Physics I (4 cr.)
	Discovery (4 cr.) ^{3,4}	INCO 430	Healthcare Professions Seminar (2 cr.)
Year Three: Fall Semester (15 cr.) ⁵		Year Three: Spring Semester (18 cr.) ⁵	
CHEM 683	Physical Chemistry I (3 cr.)	CHEM 684	Physical Chemistry II (3 cr.)
CHEM 685	Physical Chemistry I Lab (2 cr.)	CHEM 686	Physical Chemistry II Lab (2 cr.)
CHEM 755	Adv. Organic Chemistry (3 cr.)	BMCB 658	General Biochemistry (3 cr.)
CHEM 774	Adv. Inorganic Chemistry (3 cr.)	BMCB 659 ⁶	General Biochemistry Lab (2 cr.)
PHYS 408	General Physics II (4 cr.)		Discovery (4 cr.) ^{3,4}
			Discovery (4 cr.) ^{3,4}
Year Four: Fall Semester (17 cr.)		Year Four: Spring Semester (14 cr.)	
CHEM 776	Physical Chemistry III (3 cr.)	CHEM 762	Instr. Meth. of Chem. Analysis. (3 cr.)
CHEM 777	Synthetic Chemistry (2 cr.)	CHEM 763	Instrumental Lab (2 cr.)
CHEM 799W	Thesis Research (4 cr.)	CHEM 798W	Senior Seminar (1 cr.)
BIOL 528 ⁶	Applied Biostatistics I (4 cr.)	CHEM 799W	Thesis Research (4 cr.)
	Discovery (4 cr.) ³		Discovery (4 cr.) ³

¹With the addition of MATH 418, and because there are so many requirements to fulfill between suggested pre-medicine courses, the B.S. Chemistry major, and UNH Discovery requirements, this course plan requires 132 total credits.

²BIOL 411/412 is not a sequence. These courses can be taken in the reverse order.

³One of these Discovery courses must be a Writing-Intensive (WI) course.

⁴Within these Discovery course slots, you should take a Psychology course, a Sociology course, and an additional English course. See additional notes below.

⁵Depending on course loads, these are excellent semesters to enroll in INCO 590/790 to earn credit for independent research.

⁶These courses are not explicitly required by medical schools; however they are highly recommended.

Fulfilling
Discovery
Program
requirements
with suggested
pre-medicine
courses:

- *Introduction to Psychology* (PYSC 401) counts as a SS Discovery
- *Pioneers of Psychology* (PYSC 571) counts as a HP Discovery
- *Introductory Sociology* (SOC 400) counts as a SS Discovery
- *Contemporary Social Problems* (SOC 540) counts as a SS Discovery
- *Environment and Society* (SOC 565) counts as an ETS Discovery
- Many ENGL courses count as FPA and HUMA Discoveries
- *Law, Medicine, and Ethics* (PHIL 660) is a Writing-Intensive course
- *Medical Sociology* (SOC 635) is a Writing-Intensive course
- *Medical Terminology* (BSCI 432) is not a Discovery or Writing-Intensive course

<i>B.A., beginning with MATH 425 and electing PHYS 407</i>			
Year One: Fall Semester (17 cr.)		Year One: Spring Semester (16 cr.)	
CHEM 400	First-Year Seminar (1 cr.)	CHEM 404	General Chemistry II (4 cr.)
CHEM 403	General Chemistry I (4 cr.)	MATH 426	Calculus II (4 cr.)
MATH 425	Calculus I (4 cr.)	PHYS 407	General Physics I (4 cr.)
	Discovery (4 cr.) ¹	ENGL 401W	First-Year Writing (4 cr.) ¹
	Discovery (4 cr.) ¹		
Year Two: Fall Semester (18 cr.)		Year Two: Spring Semester (15 cr.)	
CHEM 517	Quantitative Analysis (4 cr.)	CHEM 548	Organic Chemistry II (3 cr.)
CHEM 518	Quantitative Analysis Lab (1 cr.)	CHEM 550	Organic Chemistry II Lab (2 cr.)
CHEM 547	Organic Chemistry I (3 cr.)	CHEM 574	Chem. Across the Per. Table (4 cr.)
CHEM 549	Organic Chemistry I Lab (2 cr.)	CHEM 576	Experimental Inorganic Chem. (2 cr.)
	Language I (4 cr.) ²		Language II (4 cr.) ²
	Discovery (4 cr.) ¹		
Year Three: Fall Semester (16 cr.)		Year Three: Spring Semester (14 cr.)	
CHEM 683	Physical Chemistry I (3 cr.)	CHEM 684	Physical Chemistry II (3 cr.)
CHEM 685	Physical Chemistry I Lab (2 cr.)	CHEM 686	Physical Chemistry II Lab (2 cr.)
	Adv. Chemistry Elective (3 cr.)	CHEM 762	Instr. Meth. of Chem. Analysis. (3 cr.)
	Discovery (4 cr.) ¹	CHEM 763	Instrumental Lab (2 cr.)
	Discovery (4 cr.) ¹		Discovery (4 cr.) ¹
Year Four: Fall Semester (16 cr.)⁴		Year Four: Spring Semester (17 cr.)	
	Discovery (4 cr.) ¹	CHEM 798W	Senior Seminar (1 cr.)
	Elective (4 cr.) ^{1,3}		Elective (4 cr.) ^{1,3}
	Elective (4 cr.) ^{1,3}		Elective (4 cr.) ^{1,3}
	Elective (4 cr.) ^{1,3}		Elective (4 cr.) ^{1,3}
			Elective (4 cr.) ^{1,3}
¹ Two of these Discovery or Elective courses must be Writing-Intensive (WI) courses. ² All UNH B.A. degrees require either two semesters of 400-level language courses or one semester of 500-level language courses. ³ Electives can range in credit amounts. 4 cr. electives are required here if no additional credits have been accumulated. ⁴ This could be an excellent semester to travel abroad, if desired. If not, the Advanced Chemistry Elective could be taken this semester.			

For the Advanced Chemistry Elective, students may choose among the following lecture courses:

- *Independent Study* (CHEM 696)
- *Spectroscopic Investigations of Organic Molecules* (CHEM 708)
- *Advanced Organic Chemistry* (CHEM 755)
- *Advanced Inorganic Chemistry* (CHEM 774)
- *Physical Chemistry III* (CHEM 776)
- *Special Topics* (CHEM 795): offered Fall or Spring semesters
- *Thesis Research* (CHEM 799): 8 credits, taken over two sequential semesters. Counts as a WI course.

<i>B.A., beginning with MATH 425 and electing PHYS 401/402</i>			
Year One: Fall Semester (17 cr.)		Year One: Spring Semester (16 cr.)	
CHEM 400	First-Year Seminar (1 cr.)	CHEM 404	General Chemistry II (4 cr.)
CHEM 403	General Chemistry I (4 cr.)	MATH 426	Calculus II (4 cr.)
MATH 425	Calculus I (4 cr.)	PHYS 402	Introduction to Physics II (4 cr.)
PHYS 401	Introduction to Physics I (4 cr.)	ENGL 401W	First-Year Writing (4 cr.)
	Discovery (4 cr.) ¹		
Year Two: Fall Semester (18 cr.)		Year Two: Spring Semester (15 cr.)	
CHEM 517	Quantitative Analysis (4 cr.)	CHEM 548	Organic Chemistry II (3 cr.)
CHEM 518	Quantitative Analysis Lab (1 cr.)	CHEM 550	Organic Chemistry II Lab (2 cr.)
CHEM 547	Organic Chemistry I (3 cr.)	CHEM 574	Chem. Across the Per. Table (4 cr.)
CHEM 549	Organic Chemistry I Lab (2 cr.)	CHEM 576	Experimental Inorganic Chem. (2 cr.)
	Language I (4 cr.) ²		Language II (4 cr.) ²
	Discovery (4 cr.) ¹		
Year Three: Fall Semester (16 cr.)		Year Three: Spring Semester (14 cr.)	
CHEM 683	Physical Chemistry I (3 cr.)	CHEM 684	Physical Chemistry II (3 cr.)
CHEM 685	Physical Chemistry I Lab (2 cr.)	CHEM 686	Physical Chemistry II Lab (2 cr.)
	Adv. Chemistry Elective (3 cr.)	CHEM 762	Instr. Meth. of Chem. Analysis. (3 cr.)
	Discovery (4 cr.) ¹	CHEM 763	Instrumental Lab (2 cr.)
	Discovery (4 cr.) ¹		Discovery (4 cr.) ¹
Year Four: Fall Semester (16 cr.)⁴		Year Four: Spring Semester (17 cr.)	
	Discovery (4 cr.) ¹	CHEM 798W	Senior Seminar (1 cr.)
	Discovery (4 cr.) ¹		Elective (4 cr.) ^{1,3}
	Elective (4 cr.) ^{1,3}		Elective (4 cr.) ^{1,3}
	Elective (4 cr.) ^{1,3}		Elective (4 cr.) ^{1,3}
			Elective (4 cr.) ^{1,3}
¹ Two of these Discovery or Elective courses must be Writing-Intensive (WI) courses. ² All UNH B.A. degrees require either two semesters of 400-level language courses or one semester of 500-level language courses. ³ Electives can range in credit amounts. 4 cr. electives are required here if no additional credits have been accumulated. ⁴ This could be an excellent semester to travel abroad, if desired. If not, the Advanced Chemistry Elective could be taken this semester.			

For the Advanced Chemistry Elective, students may choose among the following lecture courses:

- *Independent Study* (CHEM 696)
- *Spectroscopic Investigations of Organic Molecules* (CHEM 708)
- *Advanced Organic Chemistry* (CHEM 755)
- *Advanced Inorganic Chemistry* (CHEM 774)
- *Physical Chemistry III* (CHEM 776)
- *Special Topics* (CHEM 795): offered Fall or Spring semesters
- *Thesis Research* (CHEM 799): 8 credits, taken over two sequential semesters. Counts as a WI course.

<i>B.A., beginning with MATH 418 and electing PHYS 407</i>			
Year One: Fall Semester (17 cr.)		Year One: Spring Semester (16 cr.)	
CHEM 400	First-Year Seminar (1 cr.)	CHEM 404	General Chemistry II (4 cr.)
CHEM 403	General Chemistry I (4 cr.)	MATH 425	Calculus I (4 cr.)
MATH 418	Analysis and App. Functions (4 cr.)	PHYS 407	General Physics I (4 cr.)
	Discovery (4 cr.)	ENGL 401W	First-Year Writing (4 cr.)
	Discovery (4 cr.)		
Year Two: Fall Semester (18 cr.)		Year Two: Spring Semester (15 cr.)	
CHEM 517	Quantitative Analysis (4 cr.)	CHEM 548	Organic Chemistry II (3 cr.)
CHEM 518	Quantitative Analysis Lab (1 cr.)	CHEM 550	Organic Chemistry II Lab (2 cr.)
CHEM 547	Organic Chemistry I (3 cr.)	CHEM 574	Chem. Across the Per. Table (4 cr.)
CHEM 549	Organic Chemistry I Lab (2 cr.)	CHEM 576	Experimental Inorganic Chem. (2 cr.)
MATH 426	Calculus II (4 cr.)		Language II (4 cr.) ²
	Language I (4 cr.) ²		
Year Three: Fall Semester (16 cr.)		Year Three: Spring Semester (14 cr.)	
CHEM 683	Physical Chemistry I (3 cr.)	CHEM 684	Physical Chemistry II (3 cr.)
CHEM 685	Physical Chemistry I Lab (2 cr.)	CHEM 686	Physical Chemistry II Lab (2 cr.)
	Adv. Chemistry Elective (3 cr.)	CHEM 762	Instr. Meth. of Chem. Analysis. (3 cr.)
	Discovery (4 cr.)	CHEM 763	Instrumental Lab (2 cr.)
	Discovery (4 cr.)		Discovery (4 cr.)
Year Four: Fall Semester (16 cr.)⁴		Year Four: Spring Semester (17 cr.)	
	Discovery (4 cr.)	CHEM 798W	Senior Seminar (1 cr.)
	Discovery (4 cr.) ¹		Elective (4 cr.) ^{1,3}
	Elective (4 cr.) ^{1,3}		Elective (4 cr.) ^{1,3}
	Elective (4 cr.) ^{1,3}		Elective (4 cr.) ^{1,3}
			Elective (4 cr.) ^{1,3}
¹ Two of these Discovery or Elective courses must be Writing-Intensive (WI) courses. ² All UNH B.A. degrees require either two semesters of 400-level language courses or one semester of 500-level language courses. ³ Electives can range in credit amounts. 4 cr. electives are required here if no additional credits have been accumulated. ⁴ This could be an excellent semester to travel abroad, if desired. If not, the Advanced Chemistry Elective could be taken this semester.			

For the Advanced Chemistry Elective, students may choose among the following lecture courses:

- *Independent Study* (CHEM 696)
- *Spectroscopic Investigations of Organic Molecules* (CHEM 708)
- *Advanced Organic Chemistry* (CHEM 755)
- *Advanced Inorganic Chemistry* (CHEM 774)
- *Physical Chemistry III* (CHEM 776)
- *Special Topics* (CHEM 795): offered Fall or Spring semesters
- *Thesis Research* (CHEM 799): 8 credits, taken over two sequential semesters. Counts as a WI course.

<i>B.A., beginning with MATH 418 and electing PHYS 401/402</i>			
Year One: Fall Semester (17 cr.)		Year One: Spring Semester (16 cr.)	
CHEM 400	First-Year Seminar (1 cr.)	CHEM 404	General Chemistry II (4 cr.)
CHEM 403	General Chemistry I (4 cr.)	MATH 425	Calculus I (4 cr.)
MATH 418	Analysis and App. Functions (4 cr.)	PHYS 402	Introduction to Physics II (4 cr.)
PHYS 401	Introduction to Physics I (4 cr.)	ENGL 401W	First-Year Writing (4 cr.)
	Discovery (4 cr.) ¹		
Year Two: Fall Semester (18 cr.)		Year Two: Spring Semester (15 cr.)	
CHEM 517	Quantitative Analysis (4 cr.)	CHEM 548	Organic Chemistry II (3 cr.)
CHEM 518	Quantitative Analysis Lab (1 cr.)	CHEM 550	Organic Chemistry II Lab (2 cr.)
CHEM 547	Organic Chemistry I (3 cr.)	CHEM 574	Chem. Across the Per. Table (4 cr.)
CHEM 549	Organic Chemistry I Lab (2 cr.)	CHEM 576	Experimental Inorganic Chem. (2 cr.)
MATH 426	Calculus II (4 cr.)		Language II (4 cr.) ²
	Language I (4 cr.) ²		
Year Three: Fall Semester (16 cr.)		Year Three: Spring Semester (14 cr.)	
CHEM 683	Physical Chemistry I (3 cr.)	CHEM 684	Physical Chemistry II (3 cr.)
CHEM 685	Physical Chemistry I Lab (2 cr.)	CHEM 686	Physical Chemistry II Lab (2 cr.)
	Adv. Chemistry Elective (3 cr.)	CHEM 762	Instr. Meth. of Chem. Analysis. (3 cr.)
	Discovery (4 cr.) ¹	CHEM 763	Instrumental Lab (2 cr.)
	Discovery (4 cr.) ¹		Discovery (4 cr.) ¹
Year Four: Fall Semester (16 cr.)⁴		Year Four: Spring Semester (17 cr.)	
	Discovery (4 cr.) ¹	CHEM 798W	Senior Seminar (1 cr.)
	Discovery (4 cr.) ¹		Elective (4 cr.) ^{1,3}
	Discovery (4 cr.) ¹		Elective (4 cr.) ^{1,3}
	Elective (4 cr.) ^{1,3}		Elective (4 cr.) ^{1,3}
			Elective (4 cr.) ^{1,3}
¹ Two of these Discovery or Elective courses must be Writing-Intensive (WI) courses. ² All UNH B.A. degrees require either two semesters of 400-level language courses or one semester of 500-level language courses. ³ Electives can range in credit amounts. 4 cr. electives are required here if no additional credits have been accumulated. ⁴ This could be an excellent semester to travel abroad, if desired. If not, the Advanced Chemistry Elective could be taken this semester.			

For the Advanced Chemistry Elective, students may choose among the following lecture courses:

- *Independent Study* (CHEM 696)
- *Spectroscopic Investigations of Organic Molecules* (CHEM 708)
- *Advanced Organic Chemistry* (CHEM 755)
- *Advanced Inorganic Chemistry* (CHEM 774)
- *Physical Chemistry III* (CHEM 776)
- *Special Topics* (CHEM 795): offered Fall or Spring semesters
- *Thesis Research* (CHEM 799): 8 credits, taken over two sequential semesters. Counts as a WI course.

<i>B.A., ACS-certified, beginning with MATH 425 and electing PHYS 401/402</i>			
Year One: Fall Semester (17 cr.)		Year One: Spring Semester (16 cr.)	
CHEM 400	First-Year Seminar (1 cr.)	CHEM 404	General Chemistry II (4 cr.)
CHEM 403	General Chemistry I (4 cr.)	MATH 426	Calculus II (4 cr.)
MATH 425	Calculus I (4 cr.)	PHYS 402	Introduction to Physics II (4 cr.)
PHYS 401	Introduction to Physics I (4 cr.)	ENGL 401W	First-Year Writing (4 cr.)
	Discovery (4 cr.) ¹		
Year Two: Fall Semester (18 cr.)		Year Two: Spring Semester (15 cr.)	
CHEM 517	Quantitative Analysis (4 cr.)	CHEM 548	Organic Chemistry II (3 cr.)
CHEM 518	Quantitative Analysis Lab (1 cr.)	CHEM 550	Organic Chemistry II Lab (2 cr.)
CHEM 547	Organic Chemistry I (3 cr.)	CHEM 574	Chem. Across the Per. Table (4 cr.)
CHEM 549	Organic Chemistry I Lab (2 cr.)	CHEM 576	Experimental Inorganic Chem. (2 cr.)
	Language I (4 cr.) ²		Language II (4 cr.) ²
	Discovery (4 cr.) ¹		
Year Three: Fall Semester (16 cr.)		Year Three: Spring Semester (14 cr.)	
CHEM 683	Physical Chemistry I (3 cr.)	CHEM 684	Physical Chemistry II (3 cr.)
CHEM 685	Physical Chemistry I Lab (2 cr.)	CHEM 686	Physical Chemistry II Lab (2 cr.)
	Adv. Chemistry Elective (3 cr.)	CHEM 762	Instr. Meth. of Chem. Analysis. (3 cr.)
	Discovery (4 cr.) ¹	CHEM 763	Instrumental Lab (2 cr.)
	Discovery (4 cr.) ¹		Discovery (4 cr.) ¹
Year Four: Fall Semester (15 cr.)		Year Four: Spring Semester (17 cr.)	
BMCB 658 ³	General Biochemistry (3 cr.)	CHEM 798W	Senior Seminar (1 cr.)
	Discovery (4 cr.) ¹		Elective (4 cr.) ^{1,4}
	Discovery (4 cr.) ¹		Elective (4 cr.) ^{1,4}
	Elective (4 cr.) ^{1,4}		Elective (4 cr.) ^{1,4}
			Elective (4 cr.) ^{1,4}
¹ Two of these Discovery or Elective courses must be Writing-Intensive (WI) courses. ² All UNH B.A. degrees require either two semesters of 400-level language courses or one semester of 500-level language courses. ³ Although it is not required for ACS certification, students interested in Biochemistry can enroll concurrently in BMCB 659, General Biochemistry Lab (2 cr.) ⁴ Electives can range in credit amounts. 4 cr. electives are required here if no additional credits have been accumulated.			

Note: For ACS certification, students must complete a biochemistry lecture course and two semesters of physics with laboratory. The physics requirement can be satisfied by PHYS 401/402 or PHYS 407/408.

For the Advanced Chemistry Elective, students may choose among the following lecture courses:

- *Independent Study* (CHEM 696)
- *Spectroscopic Investigations of Organic Molecules* (CHEM 708)
- *Advanced Organic Chemistry* (CHEM 755)
- *Advanced Inorganic Chemistry* (CHEM 774)
- *Physical Chemistry III* (CHEM 776)
- *Special Topics* (CHEM 795): offered Fall or Spring semesters
- *Thesis Research* (CHEM 799): 8 credits, taken over two sequential semesters. Counts as a WI course.

B.A., ACS-certified, beginning with MATH 418 and electing PHYS 401/402

Year One: Fall Semester (17 cr.)		Year One: Spring Semester (16 cr.)	
CHEM 400	First-Year Seminar (1 cr.)	CHEM 404	General Chemistry II (4 cr.)
CHEM 403	General Chemistry I (4 cr.)	MATH 425	Calculus I (4 cr.)
MATH 418	Analysis and App. Functions (4 cr.)	PHYS 402	Introduction to Physics II (4 cr.)
PHYS 401	Introduction to Physics I (4 cr.)	ENGL 401W	First-Year Writing (4 cr.)
	Discovery (4 cr.) ¹		
Year Two: Fall Semester (18 cr.)		Year Two: Spring Semester (15 cr.)	
CHEM 517	Quantitative Analysis (4 cr.)	CHEM 548	Organic Chemistry II (3 cr.)
CHEM 518	Quantitative Analysis Lab (1 cr.)	CHEM 550	Organic Chemistry II Lab (2 cr.)
CHEM 547	Organic Chemistry I (3 cr.)	CHEM 574	Chem. Across the Per. Table (4 cr.)
CHEM 549	Organic Chemistry I Lab (2 cr.)	CHEM 576	Experimental Inorganic Chem. (2 cr.)
MATH 426	Calculus II (4 cr.)		Language II (4 cr.) ²
	Language I (4 cr.) ²		
Year Three: Fall Semester (16 cr.)		Year Three: Spring Semester (14 cr.)	
CHEM 683	Physical Chemistry I (3 cr.)	CHEM 684	Physical Chemistry II (3 cr.)
CHEM 685	Physical Chemistry I Lab (2 cr.)	CHEM 686	Physical Chemistry II Lab (2 cr.)
	Adv. Chemistry Elective (3 cr.)	CHEM 762	Instr. Meth. of Chem. Analysis. (3 cr.)
	Discovery (4 cr.) ¹	CHEM 763	Instrumental Lab (2 cr.)
	Discovery (4 cr.) ¹		Discovery (4 cr.) ¹
Year Four: Fall Semester (15 cr.)		Year Four: Spring Semester (17 cr.)	
BMCB 658 ³	General Biochemistry (3 cr.)	CHEM 798W	Senior Seminar (1 cr.)
	Discovery (4 cr.) ¹		Elective (4 cr.) ^{1,4}
	Discovery (4 cr.) ¹		Elective (4 cr.) ^{1,4}
	Discovery (4 cr.) ¹		Elective (4 cr.) ^{1,4}
			Elective (4 cr.) ^{1,4}

¹Two of these Discovery or Elective courses must be Writing-Intensive (WI) courses.
²All UNH B.A. degrees require either two semesters of 400-level language courses or one semester of 500-level language courses.
³Although it is not required for ACS certification, students interested in Biochemistry can enroll concurrently in BMCB 659, General Biochemistry Lab (2 cr.)
⁴Electives can range in credit amounts. 4 cr. electives are required here if no additional credits have been accumulated.

Note: For ACS certification, students must complete a biochemistry lecture course and two semesters of physics with laboratory. The physics requirement can be satisfied by PHYS 401/402 or PHYS 407/408.

For the Advanced Chemistry Elective, students may choose among the following lecture courses:

- *Independent Study* (CHEM 696)
- *Spectroscopic Investigations of Organic Molecules* (CHEM 708)
- *Advanced Organic Chemistry* (CHEM 755)
- *Advanced Inorganic Chemistry* (CHEM 774)
- *Physical Chemistry III* (CHEM 776)
- *Special Topics* (CHEM 795): offered Fall or Spring semesters
- *Thesis Research* (CHEM 799): 8 credits, taken over two sequential semesters. Counts as a WI course.

B.A., ACS-certified, completing suggested pre-medicine courses, beginning with MATH 425 and electing PHYS 401/402

Year One: Fall Semester (17 cr.)		Year One: Spring Semester (16 cr.)	
CHEM 400	First-Year Seminar (1 cr.)	CHEM 404	General Chemistry II (4 cr.)
CHEM 403	General Chemistry I (4 cr.)	MATH 426	Calculus II (4 cr.)
MATH 425	Calculus I (4 cr.)	PHYS 402	Introduction to Physics II (4 cr.)
PHYS 401	Introduction to Physics I (4 cr.)	ENGL 401W	First-Year Writing (4 cr.)
	Discovery (4 cr.) ^{1,2}		
Year Two: Fall Semester (18 cr.)		Year Two: Spring Semester (17 cr.)	
CHEM 517	Quantitative Analysis (4 cr.)	CHEM 548	Organic Chemistry II (3 cr.)
CHEM 518	Quantitative Analysis Lab (1 cr.)	CHEM 550	Organic Chemistry II Lab (2 cr.)
CHEM 547	Organic Chemistry I (3 cr.)	CHEM 574	Chem. Across the Per. Table (4 cr.)
CHEM 549	Organic Chemistry I Lab (2 cr.)	CHEM 576	Experimental Inorganic Chem. (2 cr.)
	Language I (4 cr.) ³	INCO 430	Healthcare Professions Seminar (2 cr.)
	Discovery (4 cr.) ^{1,2}		Language I (4 cr.) ³
Year Three: Fall Semester (17 cr.)		Year Three: Spring Semester (14 cr.)	
CHEM 683	Physical Chemistry I (3 cr.)	CHEM 684	Physical Chemistry II (3 cr.)
CHEM 685	Physical Chemistry I Lab (2 cr.)	CHEM 686	Physical Chemistry II Lab (2 cr.)
BIOL 411 ⁴	Intro Biol: Molecular/Cellular (4 cr.)	BMCB 658	General Biochemistry (3 cr.)
	Discovery (4 cr.) ^{1,2}	BMCB 659 ⁵	General Biochemistry Lab (2 cr.)
	Discovery (4 cr.) ^{1,2}	BIOL 412 ⁴	Intro Biol: Evol Biodiv & Ecol (4 cr.)
Year Four: Fall Semester (15 cr.)		Year Four: Spring Semester (14 cr.)	
	Adv. Chemistry Elective (3 cr.)	CHEM 798W	Senior Seminar (1 cr.)
BIOL 528 ⁵	Applied Biostatistics I (4 cr.)	CHEM 762	Instr. Meth. of Chem. Analysis. (3 cr.)
	Discovery (4 cr.) ¹	CHEM 763	Instrumental Lab (2 cr.)
	Discovery (4 cr.) ¹		Elective (4 cr.) ^{1,6}
			Elective (4 cr.) ^{1,6}

¹Two of these Discovery or Elective courses must be Writing-Intensive (WI) courses.

²Within these Discovery course slots, you should take a Psychology course, a Sociology course, and an additional English course. See additional notes below.

³All UNH B.A. degrees require either two semesters of 400-level language courses or one semester of 500-level language courses.

⁴BIOL 411/412 is not a sequence. These courses can be taken in the reverse order.

⁵These courses are not explicitly required by medical schools; however they are highly recommended.

⁶Electives can range in credit amounts. 4 cr. electives are required here if no additional credits have been accumulated.

Note: For ACS certification, students must complete a biochemistry lecture course and two semesters of physics with laboratory (either 401/402 or 407/408). Suggested pre-medicine courses ensure this.

For the Advanced Chemistry Elective, students may choose among the following lecture courses:

- *Independent Study* (CHEM 696)
- *Spectroscopic Investigations of Organic Molecules* (CHEM 708)
- *Advanced Organic Chemistry* (CHEM 755)
- *Advanced Inorganic Chemistry* (CHEM 774)
- *Physical Chemistry III* (CHEM 776)

- *Special Topics* (CHEM 795): offered Fall or Spring semesters
- *Thesis Research* (CHEM 799): 8 credits, taken over two sequential semesters

Fulfilling Discovery Program requirements with suggested pre-medicine courses:

- *Introduction to Psychology* (PYSC 401) counts as a SS Discovery
- *Pioneers of Psychology* (PYSC 571) counts as a HP Discovery
- *Introductory Sociology* (SOC 400) counts as a SS Discovery
- *Contemporary Social Problems* (SOC 540) counts as a SS Discovery
- *Environment and Society* (SOC 565) counts as an ETS Discovery
- Many ENGL courses count as FPA and HUMA Discoveries
- *Law, Medicine, and Ethics* (PHIL 660) is a Writing-Intensive course
- *Medical Sociology* (SOC 635) is a Writing-Intensive course
- *Medical Terminology* (BSCI 432) is neither a Discovery nor Writing-Intensive course

B.A., ACS-certified, completing suggested pre-medicine courses, beginning with MATH 418 and electing PHYS 401/402

Year One: Fall Semester (17 cr.)		Year One: Spring Semester (16 cr.)	
CHEM 400	First-Year Seminar (1 cr.)	CHEM 404	General Chemistry II (4 cr.)
CHEM 403	General Chemistry I (4 cr.)	MATH 425	Calculus I (4 cr.)
MATH 418	Analysis and App. Functions (4 cr.)	PHYS 402	Introduction to Physics II (4 cr.)
PHYS 401	Introduction to Physics I (4 cr.)	ENGL 401W	First-Year Writing (4 cr.)
	Discovery (4 cr.) ^{1,2}		
Year Two: Fall Semester (18 cr.)		Year Two: Spring Semester (17 cr.)	
CHEM 517	Quantitative Analysis (4 cr.)	CHEM 548	Organic Chemistry II (3 cr.)
CHEM 518	Quantitative Analysis Lab (1 cr.)	CHEM 550	Organic Chemistry II Lab (2 cr.)
CHEM 547	Organic Chemistry I (3 cr.)	CHEM 574	Chem. Across the Per. Table (4 cr.)
CHEM 549	Organic Chemistry I Lab (2 cr.)	CHEM 576	Experimental Inorganic Chem. (2 cr.)
MATH 426	Calculus II (4 cr.)	INCO 430	Healthcare Professions Seminar (2 cr.)
	Language I (4 cr.) ³		Language II (4 cr.) ³
Year Three: Fall Semester (17 cr.)		Year Three: Spring Semester (14 cr.)	
CHEM 683	Physical Chemistry I (3 cr.)	CHEM 684	Physical Chemistry II (3 cr.)
CHEM 685	Physical Chemistry I Lab (2 cr.)	CHEM 686	Physical Chemistry II Lab (2 cr.)
BIOL 411 ⁴	Intro Biol: Molecular/Cellular (4 cr.)	BMCB 658	General Biochemistry (3 cr.)
	Discovery (4 cr.) ^{1,2}	BMCB 659 ⁵	General Biochemistry Lab (2 cr.)
	Discovery (4 cr.) ^{1,2}	BIOL 412 ⁴	Intro Biol: Evol Biodiv & Ecol (4 cr.)
Year Four: Fall Semester (15 cr.)		Year Four: Spring Semester (14 cr.)	
	Adv. Chemistry Elective (3 cr.)	CHEM 798W	Senior Seminar (1 cr.)
BIOL 528 ⁵	Applied Biostatistics I (4 cr.)	CHEM 762	Instr. Meth. of Chem. Analysis. (3 cr.)
	Discovery (4 cr.) ¹	CHEM 763	Instrumental Lab (2 cr.)
	Discovery (4 cr.) ¹		Discovery (4 cr.) ¹
			Elective (4 cr.) ^{1,6}

¹Two of these Discovery or Elective courses must be Writing-Intensive (WI) courses.

²Within these Discovery course slots, you should take a Psychology course, a Sociology course, and an additional English course. See additional notes below.

³All UNH B.A. degrees require either two semesters of 400-level language courses or one semester of 500-level language courses.

⁴BIOL 411/412 is not a sequence. These courses can be taken in the reverse order.

⁵These courses are not explicitly required by medical schools; however they are highly recommended.

⁶Electives can range in credit amounts. 4 cr. electives are required here if no additional credits have been accumulated.

Note: For ACS certification, students must complete a biochemistry lecture course and two semesters of physics with laboratory. Suggested pre-medicine courses ensure this.

For the Advanced Chemistry Elective, students may choose among the following lecture courses:

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- *Physical Chemistry III* (CHEM 776)

- *Special Topics* (CHEM 795): offered Fall or Spring semesters
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Fulfilling Discovery Program requirements with suggested pre-medicine courses:

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- *Contemporary Social Problems* (SOC 540) counts as a SS Discovery
- *Environment and Society* (SOC 565) counts as an ETS Discovery
- Many ENGL courses count as FPA and HUMA Discoveries
- *Law, Medicine, and Ethics* (PHIL 660) is a Writing-Intensive course
- *Medical Sociology* (SOC 635) is a Writing-Intensive course
- *Medical Terminology* (BSCI 432) is neither a Discovery nor a Writing-Intensive course