

Chemistry Major Checklist

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Please note that departmental contact is strongly recommended to further aid your academic planning. Irregularities in offerings do occur as a result of sabbaticals and medical leaves.

_____ CHEM 110 and 151 (fall)

_____ CHEM 221 and 152 (spr.)

_____ CHEM 230 and 251 (fall)

_____ CHEM 231 and 252 (spr.)

_____ CHEM 340 and 351 (fall)

_____ PHYS 131 and 151 (fall)

_____ CHEM 341 and 352 (spr.)

_____ PHYS 132 and 152 (spr.)

_____ CHEM 441 and 452 (spr.)

Plus **one** of the following options:

Option a:

_____ CHEM 440 and 451 (fall)

_____ CHEM _____ (elective)
(300- or 400-level)

Option b for ACS accreditation in Chemistry:

_____ CHEM 335 (fall/even)

_____ CHEM 420 (fall)

_____ CHEM 440 and 451 (fall)

Option c for ACS accreditation in Biochemistry:

_____ CHEM 335 or BIOL 311

_____ CHEM 420 and 451 (fall)

_____ BIOL 304

_____ BIOL 201 or 321

Note: CHEM Majors must also complete:

_____ MATH 141

_____ MATH 142

Information for CHEM majors:

- CHEM labs (Techniques Track) are each stand-alone courses-- separate from the lecture-based courses (Concepts Track). The lab courses are combined here based on common pairings, but can be taken separately—yet **MUST** be taken sequentially.
- CHEM majors **MUST** take MATH 141 & 142 prior to taking CHEM 340-341. PHYS 131-132 can be taken prior to or while enrolled in CHEM 340-341.
- Students wishing to study abroad, complete an HONS project, or complete the major in 3 years, should consult with a CHEM faculty advisor **immediately**. Study abroad is recommended in the spring of the junior year.
- Majors are encouraged to participate in the Pre-Health Society, AXE Fraternity or even the Fire Department.
- Environmental Studies is a minor which may be of interest as you develop into a “better man and a better citizen.” This minor addresses moral, economic, societal, and public policy issues considered in establishing environmental policies and regulations.

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Successful completion of the above items does not alone guarantee that graduation requirements have been met. Please see advisor. Last updated 08/18

Typical Course Pattern for a CHEM Major:

Yr.	Fall	Title	Spring	Title
Fr.	CHEM 110	Chemical Concepts	CHEM 221	Descr. Inorganic Chemistry
	CHEM 151	Techniques of Chemistry I	CHEM 152	Techniques of Chemistry II
	MATH 141	Calculus I	MATH 142	Calculus II
	RHET 101	Rhetoric	RHET 102	Rhetoric
	Language		Language	
	Elective#		Elective#	
So.	CHEM 230	Organic Chemistry I	CHEM 231	Organic Chemistry II
	CHEM 251	Intermediate Techniques I	CHEM 252	Intermediate Techniques II
	PHYS 131	Funda. of Physics I	PHYS 132	Funda. of Physics II
	PHYS 151	Gen. Phys. Lab I	PHYS 152	Gen. Phys. Lab II
	Language		Language	
	Elective#		Elective#	
	Elective#		Elective#	
Jr.	CHEM 340	Physical Chemistry I	CHEM 341	Physical Chemistry II
	CHEM 351	Advanced Lab I	CHEM 352	Advanced Lab I
	CHEM ELE	See Options a-c	Elective#	
	Elective#		Elective#	
	Elective#		Elective#	
	Elective#		Elective#	
Sr.	CHEM ELE	See Options a-c	CHEM 441	Instrumentation & Analysis
	CHEM 451	Advanced Lab II	CHEM 452	Advanced Lab II
	Elective#		CHEM ELE	See Options a-c
	Elective#		Elective#	
	Elective#		Elective#	
	Elective#		Elective#	