Chemistry Major Checklist

DEPARTMENT CHAIR: Dr. Kevin Dunn, Gilmer 219, (434) 223-6181
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.

UNOFFICIAL FORM–
OFFICE OF ACADEMIC SUCCESS.
Successful completion of the above items does not alone guarantee that graduation requirements have been met. Please see advisor. Last updated 07/21

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#	