

# Fall 2005: Chem Ed. Major: Student Checklist Eastern Michigan University

Advisor: Larry Kolopajlo, Ph.D. lkolopajl@emich.edu 734-487-0100 Office: 202 MJ

PLEASE TYPE or PRINT

Name: \_\_\_\_\_ Last \_\_\_\_\_ First \_\_\_\_\_ Middle \_\_\_\_\_ Phone: \_\_\_\_\_ Student No.: \_\_\_\_\_

Street: \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_

Listing of all Required Courses Completed Toward Major									
Done ?	EMU Course	EMU Course Title	Sem. Hours	Transfer Course	Institution where taken	Course No.	Course Title	Semester Hours	Grade $\geq$ C Needed
	CHEM 121	Gen Chem I Lecture	3						
	CHEM 122	Gen Chem I Lab	1						
	CHEM 123	Gen Chem II Lecture	3						
	CHEM 124	Gen Chem II Lab	1						
	CHEM 281	Quantitative Analysis	4						
	CHEM 371	Organic Chem I	3						
	CHEM 372	Organic Chem II	3						
	CHEM 373	Organic Chem Lab	2						
	CHEM 351/451	Fund. Biochemistry	4 / 3						
	CHEM 361	Fund. Physical Chem	3						
	CHEM 381	Instrumentation for Chem Tech	2						
	CHEM 406	Nature of Science	1						
	CHEM ***	Elective (300 - 400 level)	2 - 3						
		<b>Total Sem Hrs Required:</b>	<b>32</b>						
<b>Also Required:</b>									
	PHY 325	Methods of Teaching the Physical Sc	3						
	MATH 120	Calculus I	4						
<b>With one of the following sequences:</b>									
	PHY 221/222	Physics 1 & 2 (Noncalculus)	8						
	or: PHY 223/224	Physics 1 & 2 (Calculus based)	10						

**RULES**

- Transfer students: EMU Policy requires that 9 credits in the major be taken at EMU at the 300-400 level. C- grades do not transfer.
- Students must present a valid (official or unofficial) transcript showing letter grades and dates when courses were taken.
- Chem 451 can be taken instead of Chem 351 but note that Chem 451 is a three hour course. Students must still have 32 credits in Chemistry.
- Students transferring from another school where only one semester of gen chem was required must take CHEM 123 or its equivalent.
- Possible electives: CHEM 411, CHEM 415, CHEM 432, Undergraduate research or other 300-400 level courses.
- A student must retake general chemistry lecture (Chem 121/123) if their course is 6 years old or more. See a) and b) below:
  - If a letter grade in an "old" gen chem course is less than a B, then that entire lecture course must be repeated.
  - Students may substitute the **CLEP Exam (www.collegeboard.com)** for retaking Chem 121/123 if their course letter grades are a **B** or better.