16REVD

B.A. IN CHEMISTRY
DEGREE REQUIREMENTS

THIS SHEET APPLIES Fall 2016

Additional information can be found at **www.chem.wayne.edu**. (TRANSFER STUDENTS: You must earn a minimum of 15 chemistry credits at WSU. Check transferred chemistry courses with an advisor to prevent problems at graduation.)

NON-CHEMISTRY REQUIREMENTS

ANY FOREIGN LANGUAGE: ☐ **1010**(4) ☐ **1020**(4) ☐ **2010**(4)

MATHEMATICS: ☐ **2010**(4) ☐ **2020**(4) ☐ **2030**(4)

NOTE: A math placement exam is required prior to enrolling in MAT 2010.
Contact the Testing Office (577-3400) for dates and arrangements.

PHYSICS: coreq Math 2020 ☐ **2170**(4) ☐ **2171**(1) ☐ **2180**(4) ☐ **2181**(1)

ALL students who transfer less than 10 hrs of physics should check with a chemistry advisor.

CHEMISTRY COURSES

GENERAL/ORGANIC CHEMISTRY:

☐ **1220**(4)/**1230**(1) or [1070(4) or 1050(6) or 1310(5) or 1410(6)]

☐ **1240**(4)/**1250**(1) or [2240(4) or 2310(4) or 1410(6)]

☐ **2220**(4)/**2230**(1) or [2260(4)/2270(2) or 2320(4)/2270(2) or 1420(6)]

GENERAL/ANALYTICAL CHEMISTRY: if you have taken 1080 but not 3120, please see an advisor

☐ **2280**(3)/**2290**(2) or [1080(5) AND 3120(4) or 1320(5)]

BIOCHEMISTRY: ☐ **5600**(3)*[F,W]*

INORGANIC CHEMISTRY: ☐ **3020**(3)*[W only]*

PHYSICAL CHEMISTRY: ☐ **5400**(4)*[W only]* or **5420**(3)*[F only]*

Physical Lab: ☐ **5550**(2)*[F,W]* Coreq or Prereq: Chem 54X0

ADV. CHEM. ELECTIVE: Complete one of the following courses or another advanced chemistry course with prior written approval by a chemistry department advisor.

☐ **5020**(3)*[F]*; or **5160**(3)*[F]*; or **5440**(4)*[W]*; or **5510**(3)*[F]*; or **6070** (3)*[W]*;
or **6240** (3)*[W]*; or **6270**(3)*[F]*; or **6440**(3)*[I]*; or **6620**(3)*[F]*; or **6635**(3)*[W]*; or **6640**(3)*[W]*
[NOTE: It is recommended that individuals who are considering the possibility of entering a graduate chemistry program or accepting an industrial position in chemistry should ALSO complete **CHM 5160** and BOTH **5420** & **5440**. Such individuals may also wish to consider completing the additional requirements for obtaining "Certification by the American Chemical Society."]

ACS CERTIFICATION OPTION:

Individuals obtaining the B.A. degree with a major in chemistry may qualify for Certification by the American Chemical Society (the national professional society for chemists) by completing the following additional reqts: MAT 2250 or 2350 or 2150, CHM 5160, 5420, 5440; and two of the advanced laboratory courses: CHM 5510, 5570, 5999.

B.A. WITH HONORS

Students wishing to earn a B.A. degree in chemistry with Honors must see Dr. Linz (367 Chemistry).

(see back for sample schedule and additional graduation requirements)

Degree Requirements for BA in Chemistry at Wayne State University

Freshman Year

Fall Semester	**Credits**
☐ CHM 1220/1230 – (PS) General Chemistry I	5
☐ English 1020 – (BC) Introductory College Writing	3
☐ Mathematics 2010 – Calculus I	4
☐ Competency Requirement	3
Total:	15

Winter Semester	**Credits**
☐ CHM 1240/1250	5
☐ Intermediate Composition (IC)	3
☐ Mathematics 2020 - Calculus II	4
☐ Competency Requirement	3
Total:	15

Sophomore Year

Fall Semester	**Credits**
☐ CHM 2220/2230 - Organic Chemistry II	5
☐ Mathematics 2030 - Calculus III	4
☐ Life Science Requirement (LS)	4
☐ Group Requirement	3
Total:	16

Winter Semester	**Credits**
☐ CHM 2280/2290 - General Chemistry II/ Analytical	5
☐ Physics 2170/2171 - (PS) General Physics I	5
☐ Group Requirements	7
Total:	17

Junior Year

Fall Semester	**Credits**
☐ CHM 5600 - Survey of Biochemistry	3
☐ Physics 2180/2181 - General Physics II	5
☐ Language I	4
☐ Group Requirement	3
Total:	15

Winter Semester	**Credits**
☐ CHM 3020 - Intermediate Inorganic Chemistry I	3
☐ CHM 5400 (or 5420 in the fall) - Biological Physical Chemistry	4
☐ Group Requirement	4
☐ Language II	4
Total:	15

Senior Year

Fall Semester	**Credits**
☐ CHM 5550 - (WI) Physical Chemistry Laboratory	2
☐ Language III	4
☐ Group Requirements	6
☐ Elective	3
Total:	15

Winter Semester	**Credits**
☐ CHM Elective (5000 Level)	3-4
☐ Electives	9
Total:	12-13

All College of Liberal Arts and Science students must complete at least 15 credits in courses at 3000 level or above and maintain at least a 2.0 overall gpa.
All Chemistry Majors must earn a grade of "C" or above in all chemistry prerequisite courses and the writing intensive course (CHM 5550). Chemistry Majors must also maintain at least a 2.0 chemistry gpa.