

16REVD



B.S. 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 REQTS FOR B.S. CHEM MAJORS

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

MATHEMATICS: 2010(4) 2020(4) 2030(4) 2250(3) OR 2350(3) OR 2150(4)

[NOTE: A math placement exam is required prior to enrolling in MAT 201. Contact the Testing Office (PH: 577-3400) for dates and arrangements. Both MAT 2250& 2350 are recommended.]

PHYSICS: math 2020 coreq 2170(4) 2171(1) 2180(4) 2181(1)

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

CHEMISTRY COURSES

GENERAL/ORGANIC CHEMISTRY:

1220(4) or 1225(3)/1230(1) or [1070(4) or 1050(6) or 1310(5) or 1410(6)]

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

2220(4)/2230(1) or [2260(4)/2270(2) or 2320(4)/2270(2) OR 1420(6) 5510(3)[F only] Adv. Org Lab

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)]

5160(3)[F only]

Analytical Lab:

5570(3)[W only]

BIOCHEMISTRY:

5600(3)[F,W]

INORGANIC CHEMISTRY:

3020(3)[W only]

5020(3)[F only]

PHYSICAL CHEMISTRY:

5420(3)[F only]

5440(4)[W 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.

6060(3)[I]; or 6070(3)[W]; or 6170 [I]; 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: Graduate courses at the 7000 level may be taken only with departmental permission.]

RESEARCH IN CHEMISTRY: 5999(min. 2; max 4)[All][NOTE: Start Research Project no later

(sooner the better) than the 1ST SEMESTER OF SENIOR YR.] To sign up for research, make an appointment

with Dr. Linz in 367 Chemistry. Email him at linz@chem.wayne.edu. You must file an Undergraduate

Research Form and present a written report signed by the Chairman of the Department of Chemistry in order to

obtain a grade for your work. With prior approval, students may be allowed to substitute 2 credits of an

internship experience (CHM 6991) in place of research.

B.S. WITH HONORS

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



Degree Requirements for BS in Chemistry at Wayne State University

Freshman Year

Fall Semester	Credits
<input type="checkbox"/> CHM 1220/1230 – (PS) General Chemistry I	5
<input type="checkbox"/> English 1020 – (BC) Introductory College Writing	3
<input type="checkbox"/> Mathematics 2010 – Calculus I	4
<input type="checkbox"/> Competency Requirement	3
Total:	15

Winter Semester	Credits
<input type="checkbox"/> CHM 1240/1250 - Organic Chemistry I	5
<input type="checkbox"/> Intermediate Composition (IC)	3
<input type="checkbox"/> Mathematics 2020 - Calculus II	4
<input type="checkbox"/> Life Science Requirement (LS)	3
Total:	15

Junior Year

Fall Semester	Credits
<input type="checkbox"/> CHM 5420 - Physical Chemistry I	3
<input type="checkbox"/> CHM 5510 - Chemical Synthesis Laboratory	3
<input type="checkbox"/> CHM 5999 - Research in Chemistry	2
<input type="checkbox"/> Language I	4
<input type="checkbox"/> Group Requirement	3
Total:	15

Winter Semester	Credits
<input type="checkbox"/> CHM 5440 - Physical Chemistry II	4
<input type="checkbox"/> CHM 5550 - (WI) Physical Chemistry Laboratory	2
<input type="checkbox"/> CHM 3020 -Intermediate Inorganic Chemistry I	3
<input type="checkbox"/> Language II	4
<input type="checkbox"/> Group Requirement	3
Total:	16

Sophomore Year

Fall Semester	Credits
<input type="checkbox"/> CHM 2220/2230 - Organic Chemistry II	5
<input type="checkbox"/> Physics 2170/2171 - (PS) General Physics I	5
<input type="checkbox"/> Mathematics 2030 - Calculus III	4
<input type="checkbox"/> Competency Requirement	3
Total:	17

Winter Semester	Credits
<input type="checkbox"/> CHM 2280/2290 - General Chemistry II/ Analytical	5
<input type="checkbox"/> Physics 2180/2181 - General Physics II	5
<input type="checkbox"/> MAT 2150 (or 2250 or 2350)	3-4
<input type="checkbox"/> Group Requirement	3
Total:	16-17

Senior Year

Fall Semester	Credits
<input type="checkbox"/> CHM 5020 - Intermediate Inorganic Chemistry II	3
<input type="checkbox"/> CHM 5600 - Survey of Biochemistry	3
<input type="checkbox"/> CHM 5160 - Instrumental Analytical Chemistry	3
<input type="checkbox"/> Language III	4
<input type="checkbox"/> Group Requirement	3
Total:	16

Winter Semester	Credits
<input type="checkbox"/> CHM 6XXX - Advanced CHM Elective	3
<input type="checkbox"/> CHM 5570 - Instrumental Analytical Chemistry Lab	3
<input type="checkbox"/> Group Requirements	9
Total:	15

All College of Liberal Arts and Science students must 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.