

**08REVD**

# B.S. IN CHEMISTRY DEGREE REQUIREMENTS

## THIS SHEET APPLIES Fall 2008

Additional information can be found at [www.chem.wayne.edu](http://www.chem.wayne.edu). Direct questions to a chemistry advisor at [chem@chem.wayne.edu](mailto:chem@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) (French, German, Russian recommended)

**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 Dr. Zibuck (229 Chem.)

UNIVERSITY GENERAL EDUCATION REQTS. & COLL OF SCIENCE GRP REQTS: See Univ. Adv.

\*\*See a Chemistry Advisor for more Information about the (ST) Science and Technology Requirement\*\*

### CHEMISTRY COURSES [Terms in which courses are normally offered are indicated in brackets.]

#### 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) OR 1410(6)]

2220(3)/2230(2) or [2260(4)/2270(2) OR 2320(4)/2270(2) OR 1420(6)]  5510(2)[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.

6040(3)[I]; 6060(3)[I]; OR 6240(3)[W]; OR 6440(3)[I]; OR 6620(3)[F]; OR 6640(3)[W]

[NOTE: Graduate courses at the 7000 level may be taken only by having a permission form signed by a chemistry advisor, the Science Dean's Office & the Graduate Dean's Office.

**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. Kodanko in 267 Chemistry. Email him at [jkodanko@chem.wayne.edu](mailto:jkodanko@chem.wayne.edu). For additional information, consult the Department WebPage. You must file an Undergraduate Research Form and present a written report signed by the Chairman of the Chemistry Department in order to obtain a grade for your work.

#### **B.S. WITH HONORS**

Students wishing to earn a B.S. in Chemistry degree with Honors must see Dr. Kodanko (267 Chemistry).

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# 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	4
<input type="checkbox"/> Mathematics 2010 – Calculus I	4
<input type="checkbox"/> Competency Requirement	3

**Total:** 16

### Winter Semester

	Credits
<input type="checkbox"/> CHM 1240/1250 - Organic Chemistry I	5
<input type="checkbox"/> English 2XXX - (IC)	3
<input type="checkbox"/> Mathematics 2020 - Calculus II	4
<input type="checkbox"/> Competency Requirement	3

**Total:** 15

## 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"/> CHM 3020 - Intermediate Inorganic Chemistry I	3
<input type="checkbox"/> CHM 5600 - Survey of Biochemistry	3

**Total:** 16

## Junior Year

### Fall Semester

	Credits
<input type="checkbox"/> CHM 5420 - Physical Chemistry I	3
<input type="checkbox"/> CHM 5510 - Chemical Synthesis Laboratory	2
<input type="checkbox"/> MAT 2150 (or 2250 or 2350)	3-4
<input type="checkbox"/> Language I	4
<input type="checkbox"/> Group Requirement	3

**Total:** 15-16

### 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"/> Language II	4
<input type="checkbox"/> Group Requirements	6

**Total:** 16

## Senior Year

### Fall Semester

	Credits
<input type="checkbox"/> CHM 5020 - Intermediate Inorganic Chemistry II	3
<input type="checkbox"/> CHM 5999 - Senior Research in Chemistry	2
<input type="checkbox"/> CHM 5160 - Instrumental Analytical Chemistry	3
<input type="checkbox"/> Language III	4
<input type="checkbox"/> Group Requirement	3

**Total:** 15

### 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	12

**Total:** 18

BS Chemistry Majors are advised to select two General Education courses that will satisfy more than one Group Requirement.