

08REVD

B.S. IN CHEMISTRY DEGREE REQUIREMENTS

With an EMPHASIS in BIOCHEMISTRY

THIS SHEET APPLIES Fall 2008

Additional information can be found at www.chem.wayne.edu. Direct questions to a chemistry advisor at 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)

[NOTE: A math placement exam is required prior to enrolling in MAT 201. Contact the Testing Office (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. Advising.

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

CHEMISTRY & BIOLOGY 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) OR 1410(6)]

2220(3)/2230(2) 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)]

5160(3)[F only]

5570(3)[W only]

INORGANIC CHEMISTRY:

3020(3)[W only]

5020(3)[F only]

PHYSICAL CHEMISTRY:

5400(4)[W only] or 5420(3) or 5440(4)

Physical Lab:

5550(2)[F, W] "Coreq or Prereq: Chem 54X0"

BIOCHEMISTRY:

6620(3)[F]

6640(3)[W]

Biochemistry Lab:

6610(2)[W] Prereq: Chem 6620

BIOLOGY:

1510(4)

2200(4)

3070(4)

MISCELLANEOUS

CHM 5510(2) or MAT 2250(3) or 2350(3) or 2150(4)

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. 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).

WSU Rev. 09/08



Degree Requirements for BS in Chemistry at Wayne State University

With an Emphasis in Biochemistry

Freshman Year

Fall Semester

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

Total: 16

Winter Semester

<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"/> BIO 1510 - (LS) Basic Life Mechanisms	4

Total: 16

Sophomore Year

Fall Semester

<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

<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"/> BIO 2200 - (LS) Introductory Microbiology	4

Total: 17

Junior Year

Fall Semester

<input type="checkbox"/> CHM 6620 - Metabolism: Pathways and Regulation	3
<input type="checkbox"/> BIO 3070	4
<input type="checkbox"/> CHM 5510 or MAT option (2250 or 2350 or 2150)	2-4
<input type="checkbox"/> Competency Requirement	3
<input type="checkbox"/> Language I	4

Total: 16-18

Winter Semester

<input type="checkbox"/> CHM 5400 - Biological Physical Chemistry	4
<input type="checkbox"/> CHM 5550 - (WI) Physical Chemistry Laboratory	2
<input type="checkbox"/> Group Requirements	6
<input type="checkbox"/> Language II	4

Total: 16

Senior Year

Fall Semester

<input type="checkbox"/> CHM 5020 - Intermediate Inorganic Chemistry II	3
<input type="checkbox"/> CHM 5999	2
<input type="checkbox"/> CHM 5160 - Instrumental Analytical Chemistry	3
<input type="checkbox"/> Language III	4
<input type="checkbox"/> Group Requirements	6

Total: 18

Winter Semester

<input type="checkbox"/> CHM 5570 - Instrumental Analytical Chemistry Lab	3
<input type="checkbox"/> CHM 6610 - Biological Chemistry Laboratory	3
<input type="checkbox"/> CHM 6640 - Molecular Biology	3
<input type="checkbox"/> Group Requirements	9

Total: 18

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