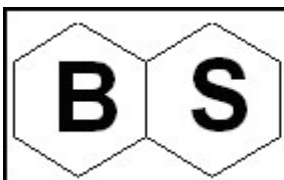


16REVD



B.S. IN CHEMISTRY DEGREE REQUIREMENTS

With a Concentration in Material Science

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) 2150 or 2250 or 2350(3-4)

[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 a chemistry advisor.

BASIC ENGINEERING: 1300(3) 1310(1)

CHEMISTRY & MATERIAL SCIENCE COURSES

GENERAL/ORGANIC CHEMISTRY:

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

1240(4)/1250(1) or [2240(4) OR 2310(4) or 1410(5)]

2220(4)/2230(1) or [2260(4)/2270(2) or 2320(4)/2270(2) or 1420(5)]

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:

5420(3)[F only]

5440(4)[W only]

Physical Lab:

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

BIOCHEMISTRY:

5600(3)[F,W]

MATERIAL SCIENCE: CHM 6060 or MSE 5350(3)[F only] MSE 5650(3)[W only]

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 tlinz@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 Department of Chemistry in order to obtain a grade for your work. With prior approval, students may substitute 2 credits of an internship experience (CHM 6991).

B.S. WITH HONORS:

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

(see back for sample schedule and additional graduation requirements)

WSU Rev. 08/16



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

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 III/ 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

Junior Year

Fall Semester	Credits
<input type="checkbox"/> CHM 5420 - Physical Chemistry I	3
<input type="checkbox"/> BE 1300 & 1310 - Materials Science & Lab	4
<input type="checkbox"/> CHM 5600 - Survey of Biochemistry	3
<input type="checkbox"/> Language I	4
<input type="checkbox"/> Group Requirement	3

Total: 17

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"/> CHM 5999 - Research in Chemistry	2
<input type="checkbox"/> Group Requirement	3
<input type="checkbox"/> Language II	4

Total: 18

Senior Year

Fall Semester	Credits
<input type="checkbox"/> CHM 5020 - Intermediate Inorganic Chemistry II	3
<input type="checkbox"/> CHM 6060 or MSE 5350 - Mater. Chem. Eng. or Polymer Sci.	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"/> MSE 5650 - Surface Science	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.