**BS IN CHEMISTRY**

**DEGREE REQUIREMENTS**

**THIS SHEET APPLIES WINTER 2018**

Additional information can be found at [www.chem.wayne.edu](http://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**

<table>
<thead>
<tr>
<th>Area</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MATHEMATICS:</strong></td>
<td><strong>2010(4)</strong></td>
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<td>[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 &amp; 2350 are recommended.]</td>
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<tr>
<td><strong>PHYSICS:</strong></td>
<td><strong>2170(4)</strong></td>
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<td>ALL students who transfer in less than 10 hrs physics should check with a chemistry advisor.</td>
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**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)** or **1410(6)**]
- **2220(4)/2230(1)** or [**2260(4)** or **2270(2)** or **2320(4)** or **2270(2)** or **1420(6)**] OR **5510(3)** [F only] Adv. Org Lab
- **5510(3)** [F only] Adv. Org Lab

**GENERAL/ANALYTICAL CHEMISTRY:**

- **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:**

- **5420(3)** [F only] OR **5440(4)** [W only]

**PHYSICAL CHEMISTRY:**

- **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 tlinz@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).

(see back for sample schedule and additional graduation requirements)

**WSU Rev. 01/18**
## Degree Requirements for BS in Chemistry at Wayne State University

### Freshman Year

**Fall Semester**
- 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**
- CHM 1240/1250 – Organic Chemistry I 5
- Intermediate Composition (IC) 3
- Mathematics 2020 – Calculus II 4
- Life Science Requirement (LS) 3
- Total: 15

### Sophomore Year

**Fall Semester**
- CHM 2220/2230 – Organic Chemistry II 5
- Physics 2170/2171 – (PS) General Physics I 5
- Mathematics 2030 – Calculus III 4
- Competency Requirement 3
- Total: 17

**Winter Semester**
- CHM 2280/2290 – General Chemistry II/ Analytical 5
- Physics 2180/2181 – General Physics II 5
- MAT 2150 (or 2250 or 2350) 3-4
- Group Requirement 3
- Total: 16-17

### Junior Year

**Fall Semester**
- CHM 5420 – Physical Chemistry I 3
- CHM 5510 – Chemical Synthesis Laboratory 3
- CHM 5999 – Research in Chemistry 2
- Language I 4
- Group Requirement 3
- Total: 16

**Winter Semester**
- CHM 5440 – Physical Chemistry II 4
- CHM 5550 – (WI) Physical Chemistry Laboratory 2
- CHM 3020 – Intermediate Inorganic Chemistry I 3
- Language II 4
- Group Requirement 3
- Total: 16

### Senior Year

**Fall Semester**
- CHM 5020 – Intermediate Inorganic Chemistry II 3
- CHM 5600 – Survey of Biochemistry 3
- CHM 5160 – Instrumental Analytical Chemistry 3
- Language III 4
- Group Requirement 3
- Total: 16

**Winter Semester**
- CHM 6XXX – Advanced CHM Elective 3
- CHM 5570 – Instrumental Analytical Chemistry Lab 3
- 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.