

# Chemistry Major

## Distribution Requirements

**MA/PH (7/3)** (At least 2/3 PH)

\_\_\_\_\_

**CH (12/3 or 13/3<sup>\*</sup> Total)** (All at 2000 or higher level; At least 2/3 at 4000 or higher level)

|  |       |       |       |       |
|--|-------|-------|-------|-------|
| Experimental (4/3 or 3/3) <sup>†</sup> | _____ | _____ | _____ | _____ |
| Inorganic (1/3)                        | _____ | _____ | _____ | _____ |
| Organic (3/3)                          | _____ | _____ | _____ | _____ |
| Physical (3/3)                         | _____ | _____ | _____ | _____ |
| Biochem (1/3 or 2/3)                   | _____ | _____ | _____ | _____ |

\* If needed, additional 1/3 at 4000 or higher level to give a total of 2/3 at this level \_\_\_\_\_

† Students may not use both CH2630 and CH2660 to satisfy this requirement.

**Additional Science and/or Engineering (11/3)**

|                              |       |       |       |       |
|------------------------------|-------|-------|-------|-------|
| Gen. Chem.                   | _____ | _____ | _____ | _____ |
| MQP (3/3)                    | _____ | _____ | _____ | _____ |
| Other (including excess MQP) | _____ | _____ | _____ | _____ |

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**SS (2/3 U)** (1/3 U ID 2050 can count here) \_\_\_\_\_

**PE (4/12)**

|       |       |       |       |
|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ |
| 1/12  | 1/12  | 1/12  | 1/12  |

**HU (2 U)**

|               |       |       |            |                                 |
|---------------|-------|-------|------------|---------------------------------|
| Area of Focus | _____ | _____ | _____      | _____                           |
|               |       |       | 2000 Level | Inquiry Seminar<br>or Practicum |

|              |       |       |       |       |
|--------------|-------|-------|-------|-------|
| HU Electives | _____ | _____ | _____ | _____ |
|--------------|-------|-------|-------|-------|

**OR** Six Language Courses

\_\_\_\_\_

**IQP (3/3)** \_\_\_\_\_

**Electives, ISP's, or Other Project Registration** (To Make 15 Units Minimum)

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# CHEMISTRY

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## Program Distribution Requirements for the Chemistry Major

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In addition to the WPI requirements applicable to all students (see page 7), students wishing to graduate with a degree in chemistry must meet the distribution requirements detailed below.

| REQUIREMENTS                                    | MINIMUM UNITS |
|---|---------------|
| 1. Mathematics and Physics (Note 1).            | 2 1/3         |
| 2. Chemistry (Notes 2, 3).                      | 4             |
| 3. Additional Science/Engineering (Notes 3, 4). | 3 2/3         |

### NOTES:

1. Must include differential and integral calculus and at least 2/3 units of physics.
2. Must be above the level of general chemistry (2000 level or higher). These 4 units must include courses in experimental chemistry (either 4/3 unit or 3/3 unit), inorganic chemistry (1/3 unit), organic chemistry (3/3 unit), physical chemistry (3/3 unit), and biochemistry (either 1/3 unit or 2/3 unit, depending on the number of experimental chemistry courses taken). At least 2/3 units must be at or higher than the 4000 level.
3. Students cannot receive credit for both CH 2360 and CH 2660.
4. Distributed among the MQP, the natural and physical sciences, computer science, mathematics, and engineering (and including general chemistry, CH 1010-1040).

### Recommended CBC Courses for an ACS-Certified Degree in Chemistry

| Year          | Term A                          | Term B                         | Term C                            | Term D                         |
|---------------|---------------------------------|--------------------------------|-----------------------------------|--------------------------------|
| <b>First</b>  | CH 1010                         | CH 1020                        | CH 1030                           | CH 1040                        |
| <b>Second</b> | CH 2640 (lab)<br>CH 3510 (phys) | CH 2650 (lab)<br>CH 2310 (org) | CH 2660 (lab)<br>CH 2320 (org)    | CH 2670 (lab)<br>CH 2330 (org) |
| <b>Third</b>  |                                 | CH 3550 (phys)                 | CH 3410 (inorg)<br>CH 3530 (phys) |                                |
| <b>Fourth</b> | CH 4110 (bioch)                 |                                |                                   | CH 4420 (inorg)                |