

**Freshman Year**

**First Semester: Fall**

|              |                     |               |
|--------------|---------------------|---------------|
| CHEM 120/121 | College Chemistry I | 5 hrs         |
| MATH 136     | Calculus I          | 4 hrs         |
| Foundation   | College Composition | 3 hrs         |
| Foundation   | Literary Studies    | <u>3 hrs</u>  |
|              |                     | <b>15 hrs</b> |

**Second Semester: Spring**

|              |                       |               |
|--------------|-----------------------|---------------|
| CHEM 222/223 | College Chemistry II  | 5 hrs         |
| MATH 137     | Calculus II           | 4 hrs         |
| Foundation   | Human Communication   | 3 hrs         |
| Foundation   | Writing in Discipline | <u>3 hrs</u>  |
|              |                       | <b>15 hrs</b> |

**Sophomore Year**

**Third Semester: Fall**

|              |                             |               |
|--------------|-----------------------------|---------------|
| CHEM 330     | Quantitative Analysis & Lab | 5 hrs         |
| PHYS 255/256 | Univ Physics I & Lab        | 5 hrs         |
| MATH 237     | Multivariable Calculus      | <u>4 hrs</u>  |
|              |                             | <b>14 hrs</b> |

**Fourth Semester: Spring**

|              |                       |               |
|--------------|-----------------------|---------------|
| CHEM 340/341 | Organic I & Lab       | 5 hrs         |
| PHYS 265/266 | Univ Physics II & Lab | 5 hrs         |
| Elective     |                       | 3 hrs         |
| Elective     |                       | <u>3 hrs</u>  |
|              |                       | <b>16 hrs</b> |

**Junior Year**

**Fifth Semester: Fall**

|              |                             |               |
|--------------|-----------------------------|---------------|
| CHEM 342/343 | Organic II & Lab            | 5 hrs         |
| CHEM 450/451 | P.Chem I & Lab <sup>F</sup> | 5 hrs         |
| Elective     |                             | 6 hrs         |
| CHEM 398     | Undergraduate Seminar       | <u>1 hr</u>   |
|              |                             | <b>17 hrs</b> |

**Sixth Semester: Spring**

|               |                              |               |
|---------------|------------------------------|---------------|
| CHEM 452G/453 | P.Chem II & Lab <sup>S</sup> | 5 hrs         |
| Foundation    | World History                | 3 hrs         |
| Explorations  | Arts & Humanities            | 3 hrs         |
| Elective      |                              | 3 hrs         |
| CHEM 399      | Lab Research (Elective)      | <u>2 hrs</u>  |
|               |                              | <b>16 hrs</b> |

**Senior Year**

**Seventh Semester: Fall**

|              |                                    |                 |
|--------------|------------------------------------|-----------------|
| CHEM 435G    | Instrumental Analysis <sup>F</sup> | 3 hrs           |
| CHEM 446     | Biochemistry I                     | 3 hrs           |
| Elective     |                                    | 3 hrs           |
| Explorations | Social & Behavior Sciences         | 3 hrs           |
| Elective     |                                    | 3 hrs           |
| CHEM 598     | Graduate Seminar                   | <u>0.5hrs</u>   |
|              |                                    | <b>15.5 hrs</b> |

**Eighth Semester: Spring**

|             |                                      |                 |
|-------------|--------------------------------------|-----------------|
| CHEM 420G   | Inorganic Chemistry <sup>S</sup>     | 3 hrs           |
| CHEM 421G   | Inorganic Chemistry Lab <sup>S</sup> | 1 hr            |
| CHEM 476 G  | Lab Adv Invest Chem <sup>S</sup>     | 2 hrs           |
| Elective    |                                      | 3 hrs           |
| Connections | Systems                              | 3 hrs           |
| Connections | Social & Cultural                    | 3 hrs           |
| CHEM 599    | Thesis Writing                       | 1 hr            |
| CHEM 598    | Graduate Seminar                     | <u>0.5hrs</u>   |
|             |                                      | <b>16.5 hrs</b> |

**Graduate Year**

**Ninth Semester: Fall**

|             |                  |                 |
|-------------|------------------|-----------------|
| CHEM 580    | Lab Chemical     | 3 hrs           |
| CHEM 599    | Thesis Writing   | 2 hrs           |
| Elective    |                  | 6 hrs           |
| Connections | Local to Global  | 3 hrs           |
| CHEM 598    | Graduate Seminar | <u>0.5 hrs</u>  |
|             |                  | <b>14.5 hrs</b> |

**Tenth Semester: Spring**

|          |                  |                 |
|----------|------------------|-----------------|
| CHEM 5XX |                  | 9 hrs           |
| CHEM 599 | Thesis Writing   | 3 hrs           |
| CHEM 598 | Graduate Seminar | <u>0.5hrs</u>   |
|          |                  | <b>11.5 hrs</b> |

**For more information**

**Contact**

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**Department Chair**

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<sup>S</sup>- Spring semester only

<sup>F</sup>- Fall semester only

- Another minor or second Major is required for all chemistry majors.
- These plans of study are designed to show how a chemistry or biochemistry major (with a minor or second major) can be achieved in 8 semesters with no transfer/AP credits or summer/winter courses.
- The ordering of certain courses is important, although some shuffling is possible, especially with respect to general education and elective courses. Please see your advisor.
- WKU requires 42 hours of upper-division courses for graduation. While many of these plans of study automatically accomplish this, it is important to note that some electives or general education courses may need to be at the 300 level or above.
- These plans of study are kept as accurate and up-to-date as possible and designed to be an aid for advising or the filing of a degree program.