

## Geneseo Curriculum Map for: B.S. in Chemistry

Program Learning Outcomes (one per row):	These courses introduce material necessary for outcome achievement. (e.g., PSYC 100)	These courses reinforce material necessary for outcome achievement.	These courses provide coverage necessary for mastery of the outcome.
1) Students will demonstrate knowledge of fundamental concepts in chemistry and its subdisciplines, including physical, organic, inorganic, biochemistry, and analytical chemistry.	CHEM 116 CHEM 118 CHEM 119 CHEM 203 CHEM 204 CHEM 209	CHEM 211    CHEM 320 CHEM 213    CHEM 324 CHEM 216    CHEM 330 CHEM 223    CHEM 331 CHEM 224    CHEM 340 CHEM 300    CHEM 342 CHEM 301    CHEM 361 CHEM 302	CHEM 304    CHEM 338 CHEM 313    CHEM 341 CHEM 315    CHEM 351 CHEM 318    CHEM 352 CHEM 329    CHEM 385 CHEM 334    CHEM 393
2) Students will demonstrate the ability to design, carry out, and interpret the results of an experiment in two subdisciplines of chemistry, including the determination and reporting of experimental uncertainties.	CHEM 119 CHEM 209	CHEM 216    CHEM 342 CHEM 301    CHEM 361 CHEM 331	CHEM 313 CHEM 393
3) Students will demonstrate the ability to design and carry out a synthetic scheme including the full structural characterization of the products.	CHEM 119 CHEM 209	CHEM 211    CHEM 223 CHEM 213    CHEM 224 CHEM 216    CHEM 301	CHEM 313 CHEM 331 CHEM 393
4) Students will demonstrate the ability to clearly communicate (both orally and written) the results of an experiment including the use modern library searching and retrieval methods to obtain information about a topic, chemical, chemical technique, or an issue relating to chemistry.	CHEM 119	CHEM 209 CHEM 216	CHEM 301    CHEM 352 CHEM 313    CHEM 361 CHEM 329    CHEM 385 CHEM 331    CHEM 351 CHEM 342    CHEM 393 CHEM 351
5) Students will demonstrate that they know and can follow the proper procedures and regulations for safe handling, use, and disposal of chemicals.	CHEM 119	CHEM 209 CHEM 216	CHEM 301    CHEM 342 CHEM 313    CHEM 361 CHEM 331    CHEM 393