

CHEMISTRY MINOR

Students pursuing other degrees at Millersville University who wish to have a special understanding of Chemical Systems or Chemical Principles can opt to minor in Chemistry. This emphasis can greatly increase a graduate's employment opportunities in certain areas, such as Occupational Safety and Health, Industrial Technology, Biology and others. The Chemistry minor option allows students to take a concentration of courses in the area of chemistry while pursuing their primary degree.

Regulations Governing Minor Course Work

1. There shall be a minimum of 18.0 credit hours with a minimum Millersville QPA of 2.0.
2. Only one course which counts toward your major may be counted toward your minor.
3. Courses that count toward a minor are also eligible to be used to satisfy the current University-wide General Education requirements subject to normal distribution requirements.
4. At least two courses should be at the upper-division level (300-400). Exceptions may be requested upon evidence of program depth.
5. No course needed for the minor may be taken Pass-Fail.
6. One-half or more of the work required for the minor must be completed at Millersville University.
7. No student may minor in his or her major.

Minor in Chemistry

Code	Title	Hours
CHEM 111	Introductory Chemistry 1	4
CHEM 112	Introductory Chemistry 2	4
CHEM 265	Quantitative Analysis	4
CHEMISTRY REQUIRED COURSES - Choose 1 of the following:		4-8
If CHEM 235 is selected, you will need an additional Chemistry Elective, CHEM 326 or 375. If CHEM 231/232 or 341/342 are selected, no elective is needed to reach 20 credits for the minor.		
CHEM 235	Organic Chemistry	
Organic Chemistry I II - See Appendix 1		
Physical Chemistry I II - See Appendix 2		
Chemistry Elective (If Needed)		0
Total Hours		16-20

Appendix 1. Organic Chemistry I & II

Code	Title	Hours
CHEM 231	Organic Chemistry 1	4
CHEM 232	Organic Chemistry 2	4

Appendix 2. Physical Chemistry I & II

Code	Title	Hours
CHEM 341	Physical Chemistry 1	4
CHEM 342	Physical Chemistry 2	4