

CHEMISTRY LICENSURE Fall 2019
REQUIRES A TOTAL OF 58 SEMESTER HOURS

Pedagogy Requirements: (4 sem. hrs. req.)

EDT 434	Science Methods For AYA	3
EDT 434L	Science Methods For AYA Lab	1
STANDER SYMPOSIUM Presentation & Participation in Science https://stander.udayton.edu		

Chemistry Requirements: (30 sem. hrs. req.)

CHM 123	General Chemistry I	3
CHM 123L	General Chemistry I Laboratory	1
CHM 124	General Chemistry II	3
CHM 124L	General Chemistry II Laboratory	1
CHM 201	Quantitative Analysis	3
CHM 201L	Quantitative Analysis Laboratory	1
CHM 313	Organic Chemistry I	3
CHM 313L	Organic Chemistry I Laboratory	1
CHM 314	Organic Chemistry II	3
CHM 314L	Organic Chemistry II Laboratory	1

Select additional courses to total 30 hours in Chemistry:

CHM 302	Physical Chemistry	3
CHM 341	Environmental Chemistry	3
CHM 341L	Environmental Chemistry Laboratory	1
CHM 420	Biochemistry	3

General Science Requirements: (16 sem. hrs. req.)

BIO 151	Concepts of Biology I	3
BIO 151L	Biology Laboratory Investigation I	1
GEO 115	Physical Geology	3
GEO 115L	Physical Geology Laboratory	1
PHY 201	General Physics I	3
PHY 201L	General Physics I Laboratory	1
PHY 202	General Physics II	3
PHY 202L	General Physics II Laboratory	1

Math Requirements: (8 sem. hrs. req.)

MTH 168	Analytic Geometry & Calculus I	4
MTH 169	Analytic Geometry & Calculus II	4

Computer Requirements: Use of computers is required in BIO 151L and BIO 152L. Students who do not possess needed skills should take CPS 111 or a higher level CPS course.

Integrated Science License: Requires a single and/or dual field concentration area, and the Integrated Science state of Ohio teaching license will be processed by the University of Dayton once ODE has issued the single and/or double field concentration license.

PHYSICS LICENSURE Fall 2019
REQUIRES A TOTAL OF 65 SEMESTER HOURS

Pedagogy Requirements: (4 sem. hrs. req.)

EDT 434	Science Methods For AYA	3
EDT 434L	Science Methods For AYA Lab	1
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Chemistry Requirements: (8 sem. hrs. req.)

CHM 123	General Chemistry I	3
CHM 123L	General Chemistry I Laboratory	1
CHM 124	General Chemistry II	3
CHM 124L	General Chemistry II Laboratory	1

Physics Requirements: (30 sem. hrs. req.)

PHY 206	General Physics I—Mechanics	3
PHY 207	General Physics II—Electricity and Magnetism ...	3
PHY 208	General Physics III—Mechanics of Waves	3
PHY 210L	General Physics Laboratory I	1
PHY 211L	General Physics Laboratory II	1
PHY 250	Descriptive Astronomy	3
PHY 303	Intermediate Mechanics I	3
PHY 321	Atomic and Nuclear Physics	3
PHY 333	Digital and Analog Electronics	3
PHY 408	Intermediate Electricity and Magnetism I	3

Select additional courses to total 30 hours in Physics:

PHY 301	Thermal Physics	3
PHY 390	Introduction to Quantum Mechanics	3
PHY 395	Research Participation I	1
PHY 403	Intermediate Mechanics II	3
PHY 409	Intermediate Electricity and Magnetism II	3
PHY 430L	Advanced Laboratory I	1
PHY 431L	Advanced Laboratory II	1

Biology & Earth Science Requirements: (8 sem. hrs. req.)

BIO 151	Concepts of Biology I	3
BIO 151L	Biology Laboratory Investigation I	1
GEO 115	Physical Geology	3
GEO 115L	Physical Geology Laboratory	1

Math Requirements: (15 sem. hrs. req.)

MTH 168	Analytical Geometry and Calculus I	4
MTH 169	Analytical Geometry and Calculus II	4
MTH 218	Analytical Geometry and Calculus III	4
MTH 219	Applied Differential Equations	3