

Lower Division Department Requirements for the Chemistry Major: forensic chemistry option

WOU Courses	Qtr Credits	PCC Course Equivalents	Qtr Credits
CH 221, 222, & 223 General Chemistry	15	CH 221, 222, & 223 General Chemistry	15
CH 334, 335, 336 Organic Chemistry	12	*CH 241, 242, 243 Organic Chemistry	15
MTH 243 Intro. to Probability & Statistics	4	MTH 243 Statistics	4
MTH 251 & 252 Calculus I & II	10	MTH 251 & 252 Calculus I & II	9
PH 201, 202, & 203 General Physics or PH 211, 212, & 213 General Physics (calculus)	12	PHY 201, 202, & 203 General Physics or PHY 211, 212, & 213 General Physics (Calculus)	12 or 15
WR 322 Technical Writing	4	WR 227 Technical and Professional Writing	4
BI 101, 102, 103 General Biology or BI 211, 212, 213 Principles of Biology	10	BI 101, 102, 103 General Biology or BI 211, 212, 213 Principles of Biology	12-15
CJ 213 Introduction to Criminal Justice	4	CJA 111 Intro. to Criminal Justice System - Police	3

*all 3 organic chemistry courses must be completed for the series to transfer to WOU.

The B.A. requires MTH 252, CS 121 or 161 (PCC's BA 131 or CAS 133 or CIS 121) and completion of the third term of the second year of a modern language course. The B.S. requires a combined 12 credit hours of course work in mathematics and computer science including MTH 252 and CS 121 or 161 (PCC's BA 131 or CAS 133 or CIS 121) For this major the six hours of writing intensive course work should come from CH 350W, CH 407W, CH 461W and CH 462W. The sequence PH 201, 202, 203 or PH 211, 212, 213 is to be completed as the LACC science requirement.

Formal admission is required for all students seeking a chemistry or chemistry – forensic chemistry option degree. Typically, application for admission will be made at the end of a student's sophomore year.

In addition to the departmental requirements listed above, students must also complete coursework for university admission, coursework to satisfy WOU's Liberal Arts Core Curriculum (LACC), cultural diversity requirement, writing intensive requirement, and graduation requirements outlined for the BS or BA. Meet with a PCC Academic Advisor to develop an effective transfer plan that will meet your individual needs.

PCC DEGREE/TRANSFER INFORMATION:

Associate of Arts/Oregon Transfer (AAOT) Degree – The courses listed above may be included in the AAOT degree. Students who complete the AAOT will be considered to have met WOU's Liberal Arts Core Curriculum requirements. The basic graduation, cultural diversity, and writing intensive requirements are separate.

Associate of Science (AS) Degree – The courses listed above may be included in the AS degree. The degree does NOT guarantee that students will be accepted as having completed all lower division comprehensive and General Education requirements for a baccalaureate degree. Student should work with an Academic Advisor to plan for transfer to the school and major of their choice.

Transfer without a PCC Degree – Students may elect to earn credits and transfer to a four-year institution without earning a PCC degree. Please meet with an Academic Advisor for an individualized plan of study.

Chemistry-Forensic Option

Dr. Arlene Courtney

503-838-8207

<http://www.wou.edu/las/physci/chemhome/forchem.htm>

BA/BS Degree in Chemistry - Forensic Option

Forensic chemistry is the application of chemistry to criminal investigation. This major is recommended for individuals who wish to pursue a career in criminal investigation, in the laboratory analysis of forensic evidence, or pursue graduate study in forensic science. This course of study would also develop the analytical skills required for careers in other areas of civil law such as environmental pollution, accident investigation and product liability. Due to the nature of forensic investigations, the forensic chemist requires a strong background in chemical analysis and must be able to effectively communicate the results of laboratory analyses in reports and in the courtroom. The curriculum is designed so that the major provides a strong theoretical and experimental background in chemistry as well as written and oral communication skills. **This major may only be taken in conjunction with the Forensics minor designated for chemistry majors.** The minor provides specialized training in forensics. Students in the program will benefit from experience gained via the required practicum.

Chemistry major: Forensic Chemistry option (71-73 credits)

CH 221, 222, 223 General Chemistry (15)

CH 312 Quantitative Analysis (4)

CH 313 Instrumental Analysis (4)

CH 334, 335, 336 Organic Chemistry (12)

CH 340 Elementary Physical Chemistry (4)

CH 350 Chemical Literature (1)

CH 407 Seminar (1)

CH 409 Practicum (1)

CH 450, 451 Biochemistry (6)

CH 461, 462 Experimental Chemistry (4)

MTH 243 Introduction to Probability and Statistics (4)

WR 321 Business and Technical Writing (4)

SP 327 Communication in the Legal Field (3)

Limited Electives-choose one track:

BI 101, 102, 103 General Biology (10)

BI 211, 212, 213 Principles of Biology (10)

The LACC science requirement will be met through PH 201, 202, 203 or PH 211, 212, 213

Forensic Science minor: Chemistry majors (27 credits)

This minor may be taken by majors in other scientific disciplines providing they complete CH 221-223, CH 334-336, and CH 313.

CH 320 Introduction to Forensic Science (3)

CH 420 Forensic Chemistry (4)

CH 430, 431, 432 Applications of Forensic Science (6)

CH 161 Fundamentals of Photography for Forensic Science (2)

CJ 213 Introduction to Criminal Justice (4)

CJ 321 Principles of Forensic Investigation (4)

CJ 452 Criminal Procedure (4)

PCC endeavors to create accurate transfer guides for students; however, requirements may change without notice. Students are responsible for working with PCC advisors and their transfer institution to ensure that their academic plan will meet requirements and timelines.