

CHEMISTRY

Chemistry

Associate of Science Oregon Transfer

FOCUS AREA DESCRIPTION

Chemists study the composition and transformations of matter. Chemists work in a wide variety of settings and find employment with government, academic and private institutions. Chemistry is frequently described as the “central science” because of the connections between it and all other scientific disciplines. Earning a degree in chemistry can be the first step toward careers with chemical, materials or pharmaceutical companies, biotech firms or forensic laboratories. It can also be a stepping stone on the route to a professional medical degree, for instance in medicine, physical therapy or pharmacy. Chemists are readily employable after completion of a bachelor’s degree. Earning an Associate of Arts Oregon Transfer (AAOT) degree with a chemistry emphasis is also excellent preparation for bachelor’s degrees in related disciplines such as toxicology, atmospheric science, environmental science or materials science.

PROGRAM ENTRANCE REQUIREMENTS

None

PROGRAM PERFORMANCE STANDARDS**Academic Requirements**

- Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
- All courses in the program must be completed with a grade of C or higher.

PROGRAM COURSE REQUIREMENTS**General Education/Foundational****Health**3 credits with HHP or HHPA prefix¹ 3**Mathematics**

MTH 105 Math in Society (or higher) 4

Oral Communication

(choose one course from the following): 3-4

SP 111 Fundamentals Public Speaking

SP 114 Argumentation & Discourse

SP 115 Intro Intercultural Commun

SP 218 Interpersonal Communication

SP 219 Small Group Communication

Writing

WR 121 Academic Composition 4

WR 122 Argument, Research and Multimodal Composition 4

or WR 227 Technical Writing

General Education/Discipline Studies

One course must be designated as Cultural Literacy.

Arts and Letters 9-12

Choose at least three courses from at least two prefixes

Social Science 12-16

Choose at least four courses from at least two prefixes

Science/Math/Computer Science 12-20

Choose at least four courses from at least two prefixes including at least three laboratory courses in biological and/or physical science

Recommend: CH 221, CH 222, CH 223, and PH 201 or PH 211

Electives 39

Choose enough electives to reach 90 credits

Recommend: MTH 251, MTH 252, MTH 253, PH 202 or PH 212,

PH 203 or PH 213

Total Credits 90-106¹ HHPA activity courses (1 credit each) are not to be duplicated.**ADVISING NOTES**

Oregon public universities with a chemistry major include: Eastern Oregon University, Oregon State University, Portland State University, Southern Oregon University, University of Oregon, Western Oregon University.