

## ASSOCIATE OF SCIENCE

# Chemistry

A chemistry degree is one of the most valuable degrees you can earn at college. The Associate of Science (AS) in Chemistry program at Dakota College is designed to prepare you to transfer to a four-year program. Throughout the curriculum you will engage in laboratory work fostering your development of excellent laboratory and analytical skills, preparing you for a wide variety of exciting career possibilities.

### Why study chemistry?

Chemistry is a vibrant and exciting subject. It is everywhere in the world around you! From the making of new materials to understanding biological systems, from the food you eat to the medicines which keep you healthy, from the quality of the water you drink to keeping the air you breathe pure ... and so much more! Why would you not want to study chemistry?

Chemistry opens up career options. There are many careers in chemistry, but even if you're looking for a job in another field, the analytical skills you gained in chemistry are helpful. Chemistry applies to the food industry, retail sales, transportation, art, homemaking ... really any type of work you can name.

### Career choices

Examples of careers in chemistry include:

- Applied research and product development
- Cheminformatics
- Chemical technology
- Laboratory management
- Chemical health and safety
- Hazardous waste management
- Quality assurance & control
- Process chemistry
- Environmental protection
- Environmental monitoring
- Forensic science
- Chemical engineering
- Industrial management
- Project management
- Regulatory affairs
- Toxicology
- Formulation chemistry
- Water chemistry
- Public health
- Geochemistry
- Agriculture

### General education requirements

These required classes will allow you to transfer to a four-year university.



## COURSES REQUIRED

### Chemistry (AS)

#### Freshman Year

	Fall	Spring
BIOL 150 General Biology I .....	4 cr	
CHEM 121 General Chemistry I.....	4 cr	
CSCI 101 Introduction to Computers.....	3 cr	
ENGL 110 College Composition I .....	3 cr	
MATH 103 College Algebra.....	4 cr	
CHEM 122 General Chemistry II.....		4 cr
ENGL 120 College Composition II .....		3 cr
Fine arts/humanities elective.....		3 cr
MATH 105 Trigonometry		
or MATH 107 Precalculus .....		3-4 cr
MATH 165 Calculus I.....		4 cr
Social science elective .....		3 cr

#### Sophomore Year

	Fall	Spring
CHEM 241 Organic Chemistry I.....	4 cr	
COMM 110 Fund. of Public Speaking .....	3 cr	
Math/science/technology elective.....	3-4 cr	
PHYS 251 University Physics I .....	4 cr	
Social science elective .....	3 cr	
Wellness elective .....	1 cr	
CHEM 242 Organic Chemistry II.....		4 cr
Fine arts/humanities elective.....		3 cr
Math/science/technology elective.....		3-4 cr
PHYS 252 University Physics II .....		4 cr
Wellness elective .....		1 cr

All courses subject to change.



## DAKOTA COLLEGE AT BOTTINEAU VISION

Dakota College at Bottineau is rooted in the past and grows towards the future by combining the best from the *Past, Present, and Future* to provide students with innovative educational opportunities. The campus will emphasize a knowledge and appreciation of *Nature*, implement a rapidly changing *Technology*, and prepare students to go *Beyond* and improve the quality of life.

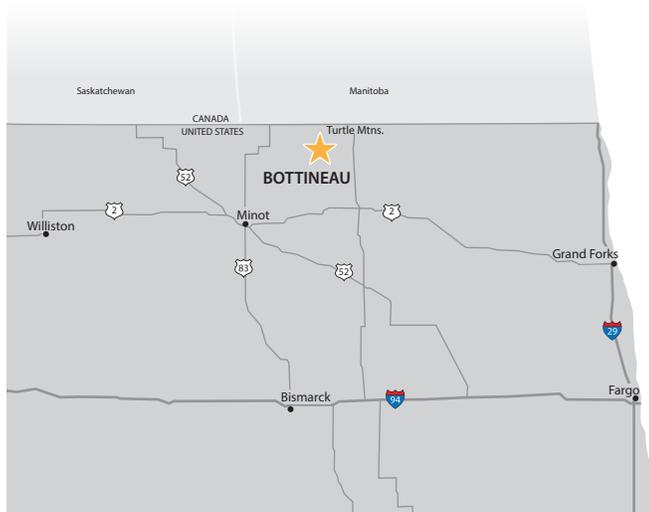
## CONTACT INFORMATION



Angela Bartholomay, Professor  
Program Manager  
Dakota College at Bottineau  
105 Simrall Blvd.  
Bottineau, ND 58318-1198  
Ph: 701-228-5471  
angela.bartholomay@dakotacollege.edu

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