

# WATER ENGINEERING TECHNOLOGY

Diploma



## The Program

Since 1989, Okanagan College has been playing an integral role in training students to work in the increasingly complex field of water engineering technology.

The program provides training in environmental monitoring along with design, use and maintenance of water systems and wastewater and waste disposal facilities. The analysis, distribution and treatment of water and wastewater as required by municipalities, water-use industries, environmental monitoring agencies, consulting engineering firms, non-profit organizations, and industrial equipment supply companies are an integral part of the program.

The program offers two semesters of common curriculum after which the students will have had exposure to practical, hands-on training including water chemistry, water treatment, hydraulics, hydrology, biology, and instrumentation. Second year students will specialize in either Water and Wastewater Technology or the Environmental Monitoring options.

**Accreditation:** The program is nationally accredited by the Technology Accreditation Canada (TAC) and is recognized by both the Applied Science Technologists and Technicians of British Columbia (ASTTBC). Graduates are eligible for registration as an Applied Science Technologist Trainee (AScT Trainee) and/or a Registered Biology Technology (RBTech) after two years of related work experience. The title "Applied Science Technologist (AScT)" and AScT (Trainee) are registered titles, protected under the Professional Governance Act of BC, as being recognized within the Regulated Practise of Applied Science Technology. Graduates are also eligible to write certification exams administered by the Environmental Operators Certificate Program (EOCP) of B.C. Based on the practical hands on experience obtained in the WET Program, graduates are awarded six months credit towards the required work experience for eligibility to write one the EOCP Level 1 Exams.

## Benefits to hiring Co-op students:

- An opportunity to evaluate employees without an obligation to permanent employment
- A proven cost-effective method of meeting human resource needs
- Access to a pool of motivated, temporary employees for special projects, peak periods, vacation relief, coverage without costly advertising
- Co-op students are available: **May - August, September - December**
- Graduates are typically available either in **January** or **May** depending on their schedule

## How do you hire Okanagan College Co-op students?

For more information email [careershub@okanagan.bc.ca](mailto:careershub@okanagan.bc.ca)

Co-op department staff are registered with Cooperative Education and Work Integrated Learning (CEWIL)



[www.okanagan.bc.ca/careers-hub/co-op](http://www.okanagan.bc.ca/careers-hub/co-op)

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## Recommended Co-op Schedule for Water Engineering Technology (WET)

September - December	January – April	May - August
Academic Term 1	Academic Term 2	Work Term 1
Work Term 2	Academic Term 3	Work Term 3
Academic Term 4	December Graduation	

Employers are encouraged to recruit up to four months prior to the start of work terms.

## Diploma in Water Engineering Technology (WET): four-semester program

### Semester 1

Introductory Chemistry for WET  
 Technical Writing and Communications for WET  
 Mathematics for WET  
 Applied Hydrology  
 Water Quality and Treatment Processes  
 Basic Instrumentation

### Semester 3

#### Environmental Monitoring Option

Microbiology of Water & Wastewater  
 Applications of Environmental Chemistry  
 Introduction to Applied Data Analytics  
 Applied Hydrogeology  
 Maintenance II  
 Applied Water Law

#### Water & Wastewater Technology Option

Microbiology of Water & Wastewater  
 Applications of Environmental Chemistry  
 Introduction to Applied Data Analytics  
 Maintenance II  
 Wastewater Treatment  
 Applied Water Law

### Semester 2

Environmental Biology  
 Water Chemistry  
 Water Distribution and Wastewater Collection I  
 Instrumentation  
 Operations, Planning and Maintenance for WET  
 Water Treatment  
 Surveying  
 Chlorine Handling and Disinfection Technologies

### Semester 4

#### Environmental Monitoring Option

Freshwater Plants and Animals  
 Limnological Methods  
 Introduction to Analytical Chemistry for WET  
 WET Capstone Project  
 Computer Applications for WET  
 Advanced Treatment Technologies

#### Water & Wastewater Technology Option

Introduction to Analytical Chemistry for WET  
 WET Capstone Project  
 Water Distribution & Wastewater Collection II  
 Computer Applications for WET  
 Advanced Treatment Technologies  
 Process Control for WET

