

PROGRAM PURPOSE

The water treatment technology program will provide students with a fundamental understanding of the scientific principles used to treat drinking water, as well as sanitize wastewater before it is discharged back into the environment.

Students will learn industry theory and gain hands-on experience using laboratory exercises to better understand the information across the spectrum – from the basics to an in-depth study of water and wastewater treatment.

During the admissions process, students' information related to previous college courses and work-related experience will be evaluated for prior learning credit. Such evaluation may reduce the time for degree completion. The need for trained water treatment technicians is growing across Maine and the United States.

To help address this shortage, Southern Maine Community College (SMCC) is partnering with Northern Maine Community College (NMCC) to offer both certificate and associate degree programs in water treatment technology at the South Portland campus. While state-of-the-art technology will allow students to access lectures from anywhere, hands-on laboratory exercises, conducted under the guidance of qualified faculty members, will take place on the South Portland campus.

CAREER OPPORTUNITIES

Graduates of this program can find job opportunities as:

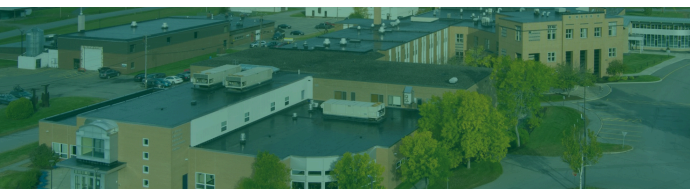
- Water Treatment Plant Operator
- Environmental Consultant
- Water Quality Specialist
- Wastewater Treatment Technician
- Regulatory Compliance Officer
- Field Service Technician
- Water Resources Manager



APPLICATION PROCEDURE

The following procedures constitute the admissions process:

- 1 Submit an NMCC application.
- 2 Submit official high school transcript and/or HiSET/GED scores (current senior's ranking period grades).
- 3 Official college transcripts for applicants who have attended other post-secondary schools.
- 4 If SAT scores are not available, placement testing may be required.
- 5 Meet with an Admissions Counselor.
- 6 A campus tour is highly recommended.



GET IN TOUCH

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Presque Isle, ME 04769

WATER TREATMENT TECHNOLOGY

2026-2027

Associate in Applied Science Degree Program

First Semester			C	L	CR
	DRR 117	Blueprint Reading for Construction Trades	2	2	3
	ENG 111	English Composition	3	0	3
>	WTT 103	Introduction to Water Treatment Technology	3	0	3
>	WTT 111	Water Treatment I	2	2	3
>	WTT 113	Water Plant Operation	3	0	3
			13	4	15

Second Semester			C	L	CR
>	CHM 201	Applied Sciences	2	2	3
	MAT 122	Technical Mathematics	2	2	3
>	WTT 120	Treatment Plant Safety	3	0	3
>	WTT 202	Water Distribution Systems	3	0	3
>	WTT 211	Water Treatment II	3	2	4
			13	6	16

Third Semester			C	L	CR
	BIO 115	General Biology	3	2	4
>	ELS 119	Introduction to Electronic Systems	1	2	2
>	WTT 121	Wastewater Treatment I	2	2	3
>	WTT 206	Wastewater Collection Systems	3	0	3
		Social Sciences Elective	3	0	3
			12	6	15

Fourth Semester			C	L	CR
	COM 221	Technical Communications	3	0	3
>	INS 110	Instrumentation & Process Controls	2	2	3
>	WTT 124	Wastewater Plant Operation	3	0	3
>	WTT 221	Wastewater Treatment II	3	2	4
		Humanities Elective	3	0	3
			14	4	16

Total Required 62

> Major courses; a minimum grade of "C" or 2.0 is required

Key: C=Class hours; L=Laboratory; CR=Credit hours

DRINKING WATER

2026-2027

Certificate Program

First Semester			C	L	CR
	DRR 117	Blueprint Reading for Construction Trades	2	2	3
>	ENG 111	English Composition	3	0	3
>	WTT 103	Introduction to Water Treatment Technology	3	0	3
>	WTT 111	Water Treatment I	2	2	3
	WTT 113	Water Plant Operation	3	0	3
			13	4	15

Second Semester			C	L	CR
	MAT 122	Technical Mathematics	2	2	3
>	WTT 120	Treatment Plant Safety	3	0	3
>	WTT 202	Water Distribution Systems	3	0	3
>	WTT 211	Water Treatment II	3	2	4
			11	4	13

Total Required 28

Wastewater

2026-2027

Certificate Program

First Semester			C	L	CR
>	ELS 119	Introduction to Electronic Systems	1	2	2
	ENG 111	English Composition	3	0	3
>	WTT 103	Introduction to Water Treatment Technology	3	0	3
>	WTT 121	Wastewater Treatment I	2	2	3
>	WTT 206	Wastewater Collection Systems	3	0	3
			12	4	14

Second Semester			C	L	CR
>	INS 110	Instrumentation & Process Controls	2	2	3
	MAT 122	Technical Mathematics	2	2	3
>	WTT 120	Treatment Plant Safety	3	0	3
>	WTT 124	Wastewater Plant Operation	3	0	3
>	WTT 221	Wastewater Treatment II	3	2	4
			13	6	16

Total Required 30

