



# WATER TREATMENT TECHNOLOGY



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### NMCC / SMCC COLLABORATION

The need for trained water treatment technicians across Maine and the United States is growing. In an effort to help alleviate the shortage in Maine, **SMCC is partnering with NMCC to deliver both certificate and associate degree level water treatment technology training on the South Portland campus.** While state of the art technology will enable students to access lectures from anywhere, hands-on laboratory-based exercises, under the direction of a qualified faculty member, will be held on the South Portland campus.

### PROGRAM PURPOSE

The Water Treatment Technology Program will provide students 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. General education courses for degree attainment, will be available from SMCC or offered online by NMCC.

### CAREER OPPORTUNITIES

Graduates qualify as technicians in water and wastewater treatment plant operations. Additional opportunities exist for laboratory analysis, chemical processing, and sales positions in companies that support the water industry.

### APPLICATION PROCEDURE

The following procedures outlines the admissions process:

1. Submit an NMCC application along with a \$20 application fee.
2. Submit official high school transcript and/or HiSET/GED scores (current high school senior’s transcript should include completed 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 will be required.
5. Individual interview required.
6. A campus tour is highly recommended.

*To learn more about this program or apply for admission into Water Treatment courses at SMCC contact NMCC Admissions: 207-768-2785 or [Admissions@nmcc.edu](mailto:Admissions@nmcc.edu)*

# nmcc.edu

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## 2020-2021 Curriculum

Coordination between the two colleges will help ensure timely scheduling of classes; the availability of financial assistance, if eligible; and acceptance into the program.

### Associate in Applied Science Degree Program

<u>First Semester</u>	C	L	CR
DRR 117 Blueprint Read for Const Trades	2	2	3
ENG 111 English Composition	3	0	3
♦ WTT 103 Intro to Water Treatment Tech	3	0	3
♦ WTT 111 Water Treatment I	2	2	3
♦ WTT 113 Water Plant Operation	3	0	3
	13	4	15
<u>Second Semester</u>			
♦ CHM 201 Applied Sciences	2	2	3
MAT 119 Applied Mathematics	4	0	4
♦ WTT 201 Water Distribution Systems	2	2	3
♦ WTT 211 Water Treatment II	3	2	4
♦ WTT 120 Treatment Plant Safety	3	0	3
	14	6	17
<u>Third Semester</u>			
♦ ELS 119 Intro to Electronic Systems	1	2	2
PHY 150 Physics	3	2	4
♦ WTT 205 Wastewater Collection Systems	2	2	3
♦ WTT 121 Wastewater Treatment I	2	2	3
Social Science Elective	3	0	3
	11	8	15
<u>Fourth Semester</u>			
COM 221 Technical Communications	3	0	3
♦ INS 110 Instrumentation & Process Controls	2	2	3
♦ WTT 221 Wastewater Treatment II	3	2	4
♦ WTT 124 Wastewater Plant Operation	3	0	3
Humanities Elective	3	0	3
	14	4	16
<b>TOTAL REQUIRED</b>			<b>63</b>

### Drinking Water Certificate Program

<u>First Semester</u>	C	L	CR
DRR 117 Blueprint Read for Const Trades	2	2	3
ENG 111 English Composition	3	0	3
♦ WTT 103 Intro to Water Treatment Tech	3	0	3
♦ WTT 111 Water Treatment I	2	2	3
♦ WTT 113 Water Plant Operation	3	0	3
	13	4	15
<u>Second Semester</u>			
MAT 119 Applied Mathematics	4	0	4
♦ WTT 201 Water Distribution Systems	2	2	3
♦ WTT 211 Water Treatment II	3	2	4
♦ WTT 120 Treatment Plant Safety	3	0	3
	12	4	14
<b>TOTAL REQUIRED</b>			<b>29</b>

### WASTEWATER Certificate Program

<u>First Semester</u>	C	L	CR
♦ ELS 119 Intro to Electronic Systems	1	2	2
ENG 111 English Composition	3	0	3
♦ WTT 103 Intro to Water Treatment Tech	3	0	3
♦ WTT 205 Wastewater Collection Systems	2	2	3
♦ WTT 121 Wastewater Treatment I	2	2	3
	11	6	14
<u>Second Semester</u>			
♦ INS 110 Instrumentation & Process Controls	2	2	3
MAT 119 Applied Mathematics	4	0	4
♦ WTT 221 Wastewater Treatment II	3	2	4
♦ WTT 124 Wastewater Plant Operation	3	0	3
♦ WTT 120 Treatment Plant Safety	3	0	3
	15	4	17
<b>TOTAL REQUIRED</b>			<b>31</b>

♦ Major courses; a minimum grade of "C" or 2.0 required.

Key: C= Class Hours, L= Lab Hours, CR= Credit Hours

NMCC is an equal opportunity/affirmative action institution and employer. For more information, please call 768-2791.

**207-768-2785**

**nmcc.edu**