

SYSTEM-WIDE CERTIFICATES

College of Technology: Technology Studies

Wastewater (Certificate)

Offered at various community colleges system-wide.

The Wastewater Certificate is a multi-campus program that responds to Connecticut's environmental needs, that is consistent with established state environmental requirements and standards, and that uses available resources most efficiently and effectively.

The curriculum has been designed cooperatively with the Department of Environmental Protection so that the courses will best meet the needs of wastewater treatment plant operations in hiring new employees and in preparing current employees for class I and II wastewater certification examinations.

The certificate offers students an entry into the College of Technology Technological Studies Pathway degree program through which a student can earn the associate in science degree and transfer all courses to Central Connecticut State University's environmental technology baccalaureate program.

REQUIRED COURSES

BIO* 121	General Biology I	4
+ ENG* 101	Composition	3
(Minimum "C" grade required)		
+ CHE* 111	Concepts of Chemistry	4
CSC* 101	Introduction to Computers	3
+ MAT* 137	Intermediate Algebra	3
	Wastewater	3
	Wastewater II	3
	Wastewater III	3
	Wastewater IV	3

MINIMUM TOTAL: 29

Advanced Wastewater (Certificate)

Offered at various community colleges system-wide.

The Advanced Wastewater Certificate will offer students a core of courses to prepare them for certification as Wastewater III and Wastewater IV Operators. The community colleges in collaboration with the Department of Environmental Protection developed the certificate program in response to legislation requiring certification.

REQUIRED COURSES

+ MAT* 186	Precalculus	4
PSY* 111	General Psychology I	3
	Fundamentals of Electricity	4
	Advanced Wastewater I	3
	Sanitary Engineering OR	3
	Environmental Engineering OR	
	Technical Elective	
	Environmental Law	3
	Advanced Wastewater II	3
	Directed Electives	6

MINIMUM TOTAL: 29

Electrical (Certificate)

Offered at various community colleges system-wide.

This program was developed to serve individuals who have completed the electrical apprenticeship training available through the Independent Electrical Contractors of Connecticut. Students who complete the Electrical Certificate program will be able to continue their studies toward an associate's degree by applying those credits toward the College of Technology Program which will then transfer to Central Connecticut State University.

REQUIRED COURSES

+ MAT* 137	Intermediate Algebra	3
+ PHY* 121	General Physics I	4
CSC* 101	Introduction to Computers	3
+ ENG* 101	Composition	3
(Minimum "C" grade required)		
+ CHE* 111	Concepts of Chemistry	4
	Electricity I	3
	Electricity II	3
	Electricity III	3
	Electricity IV	3

MINIMUM TOTAL: 29

Lean Manufacturing (Certificate)

The Lean Manufacturing and Supply Chain Management Certificates provide students with the skills that will increase their employability in the manufacturing field, as well as set them on a path that will enable them to further their education. The courses within the certificates were developed by members of the College of Technology in conjunction with industry partners. The courses in lean manufacturing are intended to ensure students have knowledge of current continuous process of improvement methodologies in use today within competitive manufacturing environments. The courses in supply chain management are intended to review the lean manufacturing principles needed to understand and maintain the supply chain and to cover the benefits and elements needed for implementing supply chain management.

REQUIRED COURSES

MFG* 171	Introduction to Lean Manufacturing	3
+ MFG* 271	Advanced Lean Manufacturing	3
		MINIMUMTOTAL: 6

Supply Chain Management (Certificate)

The Lean Manufacturing and Supply Chain Management Certificates provide students with the skills that will increase their employability in the manufacturing field, as well as set them on a path that will enable them to further their education. The courses within the certificates were developed by members of the College of Technology in conjunction with industry partners. The courses in lean manufacturing are intended to ensure students have knowledge of current continuous process of improvement methodologies in use today within competitive manufacturing environments. The courses in supply chain management are intended to review the lean manufacturing principles needed to understand and maintain the supply chain and to cover the benefits and elements needed for implementing supply chain management.

REQUIRED COURSES

MFG* 172	Introduction to Lean Supply Chain Management	3
+ MFG* 272	Implementing Lean Supply Chain Management	3
		MINIMUMTOTAL: 6