

11. Define, discuss, and employ beginning kitchen management theories and techniques. Plan, organize and communicate (through written papers) information gained through journal research.
12. Define, discuss, and explain the importance of nutrition to health status.
13. Define and apply the components of nutrition to various age groups.
14. Apply acquired nutrition knowledge to daily living experiences.
15. Demonstrate knowledge of current nutrition information through compilation of weekly written reaction sheets.
16. Identify their personal nutritional status through use of computer nutrition program used in conjunction with written daily food diary.

Early Childhood Education

Behavioral and Social Sciences Division

The certificate program consists of thirty (30) credits in Early Childhood. These are designed to develop the basic skills and knowledge necessary in Early Childhood Education. The curriculum is a form of a connector, or intensified refresher program, for those who have either been away from academic studies for a while and/or have been engaged in group child care without formal training in the area. For further information, contact the Program Coordinator.

Course No.	Title	Credits
ENG*H101	Composition	3
PSY*H111	General Psychology I	3
PSY*H204	Child and Adolescent Development	3
ECE*H101	Introduction to Early Childhood Education	3
ECE*H103	Creative Experiences/Children	3
ECE*H109	Science and Math for Children	3
ECE*H141	Infant/Toddler Development	3
ECE*H176	Health, Safety & Nutrition	3
ECE*H210	Observation and Participation	3
ECE*H231	Early Language and Literacy Development	3
Total Credit Hours		30

Program Outcomes

Upon successful completion of all program requirements, graduates will be able to:

1. Utilize the writing skills for developing lessons and composing reports.
2. Be knowledgeable about various theories as they apply to young children.
3. Be able to apply theories to the physical, social emotion and cognitive development of children.
4. Learn how theories can be applied to understanding children's behavior.
5. Demonstrate a basic knowledge of Early Childhood Education & the skills required to make objective observations of young children in the classroom setting.
6. Be able to systematically observe and record children's behavior.
7. Understand the different aspects of speech and communication.
8. Become acquainted with various communication impairments or delays and set realistic goals for young children in the area of language development.
9. Make an initial assessment of a child's language development.
10. Understand how a child's sensorimotor development influences a child's ability to learn.
11. Recognize possible signs of physical handicaps and developmental delays.
12. Be aware of the interrelationships between child development and the areas of health, safety and nutrition.
13. Be knowledgeable about the control and prevention of communicable diseases.
14. Provide general curriculum adaptations and guidelines to help children meet their special needs.
15. Gain the experience to create a supportive and interesting learning environment.
16. Be able to write goals, objectives and developmentally appropriate activities.

17. Develop a curriculum using a multisensory approach to teaching.
18. Plan, organize, execute and evaluate classroom activities on a weekly basis.
19. Write developmentally appropriate explorations prescription based upon a child's individual learning style.

Electrical

Engineering Technologies Division

The Electrical Certificate will offer individuals who have completed the electrical training, the general education courses that will provide them with general knowledge and skills of value to them at the work site. These skills will prepare these individuals for promotional opportunities. NVCC provides these courses. The specialized courses will be available through the apprenticeship training program provided by the Independent Electrical Contractors of Connecticut.

In addition, the four-course, twelve (12) credit core of the certificate program will be recognized as an option to the College of Technology Technological Studies pathway program. See pathway program in this catalog.

Course No.	Title	Credits
MAT*H172	College Algebra	3
PHY*H121	General Physics I	4
TCN*H101	Introduction to Engineering Technology	3
—	Electricity I†	3
—	Electricity II†	3
		16
ENG*H101	Composition	3
CHE*H111	Concepts of Chemistry	4
—	Electricity III†	3
—	Electricity IV†	3
		13
Total Credit Hours		29

† Students recognized as having completed the Electrical Apprentice Training Program will receive credit for this course.

Electronic Music and Audio Production

Arts and Humanities Division

The certificate in Electronic Music and Audio Production is designed for individuals who wish to learn, or enhance, their skills in the areas of electronic music composition and audio production. The certificate program will serve the specialized needs of students of Digital Arts and Fine Arts as well as individuals interested in electronic music composition and audio production. Students will be exposed to important historical aspects that have influenced compositional styles as well as the impact of technology on music and art.

Students must complete the following courses with a grade of "C" or better:

Course No.	Title	Credits
MUS*H101	Music History & Appreciation I	3
DAT/MUS*H218	Electronic Music Composition/ Audio Tech I	3
DAT/MUS*H237	Principles of Sound Recording	3
*Directed Elective	Arts/Digital Arts	3
		12
MUS*H126	20th Century/Modern Music	3
DAT/MUS*H219	Electronic Music Composition/ Audio Tech II	3
DAT*H220	Acoustics and Sound Design	3
		9
Total Credit Hours		21

CERTIFICATE PROGRAMS

*Directed Electives:

DAT*H110, DAT*H226, DAT*H290,
MUS*H103, MUS*H115, MUS*H290

Program Outcomes

Upon successful completion of all program requirements, graduates will be able to:

1. Analyze and evaluate the properties of sound, human hearing, and sound reproduction systems.
2. Use principles of acoustics and psychoacoustics to design state-of-the-art sonic environments.
3. Apply industry-standard techniques and tools to complete two-track and multi-track recording projects.
4. Use digital signal processing tools to manipulate and shape sound.
5. Compose original electronic music compositions.

Engineering Exploratory Certificate

Engineering Technologies Division

The Exploratory is designed to prepare students for Engineering Technology programs and enable them to evaluate career choices in Engineering Technologies.

Course No.	Title	Credits
TCN*H101	Introduction to Engineering Technology	3
MFG*H104	Manufacturing Processes	4
CAD*H150	CAD 2D	
	or	
DFT-H1110	Technical Drafting	3
EET*H104	Electrical CAD and Fabrication	1
	or	
EET*H102	Electrical Applications†	3

†EET*H102 can be taken instead of EET*H104 but may require additional math courses.

Total Credit Hours 11-13

Program Outcomes

Upon successful completion of all program requirements, graduates will be able to:

1. Evaluate career choices in Engineering technologies.
2. Discuss the history of technology.
3. Meet with faculty in various Engineering Technologies.
4. Demonstrate proper setup and procedures for various manufacturing processes.
5. Use OrCAD Capture and Layout software.
6. Populate a double sided PC board.
7. Use drafting instruments.
8. Prepare a set of working drawings for a small machine assembly.
9. Differentiate between the various technologies used to complete a major engineering project.

Environmental Systems Mathematics/Science Division

Connecticut's manufacturers have made a considerable investment in pollution abatement equipment in order to meet the increasingly stringent demands of state and federal environmental regulatory agencies. The sophistication of the equipment and the complicated regulations very often surpass the knowledge of the personnel assigned to operate these systems and to interpret the regulations. Naugatuck Valley Community College, conscious of its strong ties to the state's industrial community, foresaw the need to initiate an environmental studies program for industry personnel.

In preparing the curriculum, the College formed an Environmental Advisory Committee of outstanding industrial practitioners, Connecticut Department of Environmental Protection personnel, college faculty and staff. The courses have been designed to represent the operational and regulatory aspects of this increasingly important function of pro-

tecting our environment, while maintaining a competitive position in the marketplace. Participants in these courses will be exposed to a pragmatic approach to the subject, and should acquire a broader and deeper understanding of the field.

The goal of the Environmental Systems Certificate Program is to prepare students for a position in industry dealing with the compliance of environmental regulations.

Course No.	Title	Credits
MAT*H172	College Algebra	3
ENV*H120	Introduction to Hazardous Materials	3
ENV*H110	Environmental Regulations	3
ENV*H230	Environmental Control Processes	3
CHE*H111	Concept of Chemistry	4
		16
ENG*H101	Composition	3
COM*H100	Introduction to Communication	3
ENV*H205	Foundations of Environmental Chemistry	3
ENV*H160	Environmental Measurement	3
ENV*H235	Waste Minimization & Treatment	3
		15
	Total Credit Hours	31

Program Outcomes

Upon successful completion of all program requirements, graduates will be able to:

1. Devise a plan to sample for contamination in the air, water, or soil.
2. Operate common environmental sampling and analysis equipment.
3. Understand how sampling procedures can affect the data obtained.
4. Select treatment methods to control air and water emissions.
5. Use chemical principles to explain how environmental control processes work.
6. Compare control process capability with government regulations.
7. Suggest pollution prevention strategies in an industrial situation.
8. Show the economic advantages of the source reduction of pollutants.
9. Evaluate the economics of recycling.
10. Evaluate waste disposal options such as incineration, landfilling, and biological degradation.
11. Use an understanding of separation techniques to select processes that recover useful materials from wastes.
12. Know the regulatory requirements governing the movement and use of hazardous materials.
13. Have the ability to implement a risk assessment program.
14. Be familiar with the routes of entry of chemicals into the body.
15. Be capable of selecting, using, and maintaining personal protective equipment.
16. Interpret a CFR citation.
17. Implement management systems approach to compliance.