

Applied Science and Engineering Technology Division

2019-2020

Credits

The associate of applied science degree with specialization in nuclear engineering technology will enable prospective students to seek employment as nuclear engineering technicians in various sectors of the nuclear power industry. This specialization utilizes a learning approach that emphasizes both theory and hands-on skills necessary to function effectively in the technical environment of the nuclear industry. The program stresses effective oral and written communication as well as related mathematics, science and technical skills.

In addition to completion of this program, graduates will eventually need to pass appropriate background checks to be employable in the nuclear industry. Please check with the Admissions Office for details.

It is strongly recommended that students follow the prescribed course sequence, as some courses are only offered once in an academic year.

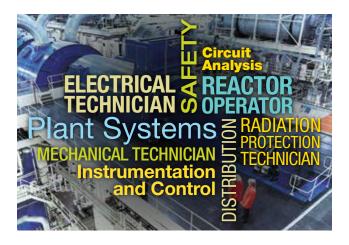
Career Opportunities

The program is based on the Nuclear Uniform Curriculum Program (NUCP), a uniform standard administered by the Nuclear Energy Institute. Students who complete the program with an 80 percent score (B or better) in core classes will qualify for the NUCP Certificate, which is recognized industry wide.

Graduates of this program will be prepared for entrylevel employment in the following areas:

- Electrical technician
- Instrumentation and control (I&C) technician
- Mechanical technician





Graduates with additional training experiences will be prepared for employment in the following areas:

- Non-licensed operator
- Radiation protection technician
- Senior reactor operator

Note: The following codes identify courses that satisfy MCCC's General Education Requirements:

(C1) GE Natural Sciences Competency

(C2) GE Mathematics Competency

(C3) GE Writing Competency

(C4) GE Computer Literacy Competency

(C5) GE Human Experience Competency

(C6) GE Social Systems Competency

Requ	ired General Education Courses 20-21
C1	PHY 151 (General Physics I) 4
C2	MATH 164 (Precalculus) or competency
	(MATH 151 Intermediate Algebra or qualifying score on
	accepted placement must be met prior to entry in the
	program)
C3	Writing Competency
C4	CIS 130 (Introduction to Computer Information Systems)
	or MDTC 160 (Mechanical Drafting CAD I)3 or 4
C5	Expressions of the Human Experience Competency 3

See the General Education Requirements on the MCCC website for a list of courses that satisfy the General Education Learning Competencies.

	Credits
Required Core Courses	48
1st Semester	
PHY 151 (General Physics I)	C1
MATH 164* (Precalculus)	
METC 100 (Introduction to Engineering & Technology)	
NUET 100 (Nuclear Industry Fundamentals)	
Computer Literacy Competency	C4
2 nd Semester	
ENGL 151 (English Composition I)	
NUET 120 (Radiation Protection)	
NUET 220 (Power Plant Components)	
ELEC 125 (Fundamentals of Electricity)	
MATL 121 (Nuclear Plant Materials)	3
Spring/Summer Semester	
NUET 205 (Nuclear Plant Experience)	
Expressions of the Human Experience Competency .	C5
3 rd Semester	
CHEM 151 (Chemistry I)	
MATH 160 (Math Applications in Engineering Technology	
ELEC 133 (Circuit Analysis)	
METC 234 (Thermodynamics and Fluid Sciences)	
NUET 130 (Plant Systems I)	3
4 th Semester	
ELEC 141 (Industrial Automation and Process Contro	
NUET 230 (Plant Systems II)	
NUET 240 (Reactor Theory, Safety and Design)	
Social Systems Competency	
ELEC 211 (Medium Voltage Power Distribution Syster	11)3
Total Dawres Dawrinsmants CO CO	
Total Degree Requirements 68-69	credits

85-87 minimum billable

contact hours

Total Degree Cost



Information contained within this document is subject to change. This program sheet may not be considered as an agreement or contract.

Monroe County Community College is an equal opportunity institution and adheres to a policy that no qualified person shall be discriminated against because of race, color, religion, national origin or ancestry, age, gender, marital status, disability, genetic information, sexual orientation, gender identity/expression, height, weight or veteran's status in any program or activity for which it is responsible. If you have a disability and need special accommodations, please contact the Learning Assistance Laboratory (734.384.4167) at least 10 business days prior to the first class session to begin the accommodation process.

The college's Equal Opportunity Officer and Title IX and Section 504/ADA Coordinator and Compliance Officer for discrimination and sexual harassment is the Director of Human Resources, Monroe County Community College, 1555 South Raisinville Road, Monroe, Michigan 48161, 734.384.4245.

Monroe County Community College is accredited by the Higher Learning Commission, www.hlcommission.org, 800.621.7440.

Main Campus

1555 South Raisinville Road Monroe, Michigan 48161 734-242-7300 / 1-877-YES-MCCC

Whitman Center

7777 Lewis Avenue Temperance, Michigan 48182 734-847-0559

www.monroeccc.edu Admissions: 734-384-4104



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^{*} MATH 157 (College Algebra) and MATH 159 (Trigonometry and Analytical Geometry) may substitute for MATH 164 (Precalculus).