

## **Applied Science and Engineering Technology Division**

2019-2020

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.

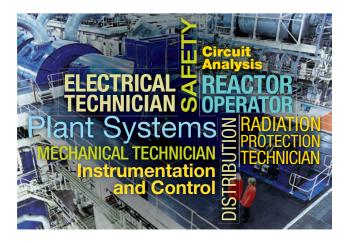
## **Career Opportunities**

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

	Credits
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
C6	Social Systems Competency

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

Oredita
Required Core Courses 48
1st Semester
PHY 151 (General Physics I)
METC 100 (Introduction to Engineering & Technology) 3  NUET 100 (Nuclear Industry Fundamentals)
2 <sup>nd</sup> Semester
ENGL 151 (English Composition I)
Spring/Summer Semester
NUET 205 (Nuclear Plant Experience)
3 <sup>rd</sup> Semester
CHEM 151 (Chemistry I)
4 <sup>th</sup> Semester
ELEC 141 (Industrial Automation and Process Control)

68-69 credits

contact hours

85-87 minimum billable

**Total Degree Requirements** 

**Total Degree Cost** 



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 at least 10 business days prior to the first class session to schedule an appointment to begin the accommodation process. The LAL phone number is 734.384.4167.

Monroe County Community College is accredited by the Higher Learning Commission. www.hlcommission.org / (800) 621-7440

Information contained within this document is subject to change. Every effort has been made to insure the information in this program sheet is accurate at the time of publication. This program sheet may not be considered as an agreement or contract.

#### **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 and Guidance Office - 734-384-4104

<sup>\*</sup> MATH 157 (College Algebra) and MATH 159 (Trigonometry and Analytical Geometry) may substitute for MATH 164 (Precalculus).