

NUCLEAR TECHNOLOGY

(Wallace Campus)

The Nuclear Technology program prepares individuals to apply scientific principles and technical skills in support of research scientists and operating engineers engaged in the running of nuclear reactors, and in nuclear materials processing and disposal. Includes instruction in industrial and electrical maintenance, basic nuclear physics and nuclear engineering, monitoring and safety procedures, radioactive materials handling and disposal, equipment maintenance and operation, and record keeping.

NUC 120	Nuclear Plant Systems I	3
NUC 121	Nuclear Plant Systems II	3
INT 292	Cooperative Education (Optional)	3
INT 293	Cooperative Education (Optional)	3
Total Field of Concentration Credits		48-54
Total Credits for Degree		70-76

DEGREE CURRICULUM

Course		Credit Hours
Area I:	Written and Oral Communications	6
ENG 101	English Composition I	3
SPH 106	Fundamentals of Oral Communication OR	
SPH 107	Fundamentals of Public Speaking	3
Area II:	Humanities and Fine Arts	3
	Humanities/Fine Arts Elective	3
Area III:	Natural Sciences, Mathematics, and Computer Science	10
CIS 146	Microcomputer Applications	3
MTH 100	Intermediate College Algebra	3
CHM 104	Introduction to Inorganic Chemistry	4
Area IV:	History, Social and Behavioral Sciences	3
PSY 200	Psychology	3

Area V: Career and Technical Courses

Required Orientation Courses

ORI 101	Orientation to College OR	
ORI 105	Orientation and Student Success	1-3
ORI 104	WorkKeys® Assessment and Advisement	1

Required Field of Concentration Courses

ELT 108	DC Fundamentals OR	
INT 101	DC Fundamentals	3
ELT 109	AC Fundamentals OR	
INT 103	AC Fundamentals	3
ELT 221	Electronics for Electricians	3
ELT 231	Introduction to Programmable Logic Controllers OR	
INT 184	Introduction to Programmable Logic Controllers	3
ELT 209	Motor Controls I OR	
INT 113	Industrial Motor Controls I	3
ELT 212	Motor Controls II OR	
INT 213	Industrial Motor Controls II	3
INT 105	Introduction to Process Technology	3
INT 117	Principles of Industrial Mechanics	3
INT 118	Fundamentals of Industrial Hydraulics and Pneumatics	3
INT 292	Nuclear Cooperative Education (Optional)	3
INT 293	Nuclear Cooperative Education (Optional)	3
MTH 103	Introduction to Technical Mathematics	3
PHY 115	Technical Physics	4
NUC 118	Radiation Protection and Detection	3
NUC 119	Reactor Plant Protection and Safety Design	3

Nuclear Technology Associate in Applied Science Degree Suggested Course Sequence

FIRST SEMESTER	SECOND SEMESTER	THIRD SEMESTER
CIS 146	INT 101	ELT 209
ENG 101	INT 117	INT 103
MTH 100	MTH 103	INT 118
ORI 101 or 105*	SPH 106 or 107	INT 184
<i>Humanities/Fine Arts Elective</i>		
<i>*If applicable, ORI 101 or 105 is required for all first-time college students.</i>		
FOURTH SEMESTER	FIFTH SEMESTER	SIXTH SEMESTER
ELT 212	CHM 104	INT 295
INT 105	ELT 221	INT 296
NUC 118	NUC 119	NUC 120
PHY 115	PSY 200	NUC 121
		ORI 104