

State Technical College of Missouri AAS in Nuclear Technology Radiation Protection Option to TESU BSAST in Nuclear Energy Engineering Technology

State Technical College of Missouri AAS in Nuclear Technology Radiation Protection Option	Credit	Thomas Edison State University BSAST – Nuclear Energy Engineering Technology (NEET)	Credits
<i>GENERAL EDUCATION</i>			
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		Intellectual and Practical Skills (15 Credits)	15
(COM 101) English Composition	3	Written Communications (6 credits)	
Need to complete 3 credits		English Composition (3 credits)	
		English Composition II (3 credits)	
(COM 111) Oral Communications	3	Oral Communications (3 credits)	
(MAT 123) Calculus I	5	Quantitative Literacy (3 credits)	
(COM 211) Technical Writing	3	Information Literacy (3 credits)	
Need to complete 9 credits		Civic and Global Learning	9
		Ethics Course (3 credits)	
		Diversity Course (3 credits)	
		Civic Engagement (3 credits)	
Need to complete 9 credits		Knowledge of Human Cultures	9
(PSC 101) American Government	3	Understanding of the Physical and Natural World	8
Need to complete 5 credits			
(MNT 107) Basic Nuclear Math and Theory	4	Mathematics	3
(PHY 101/102) College Physics with Lab	4	General Education Electives	16
(PHY 121) General Chemistry I	5		
(COM 125) Job Search Strategies	1		
Need to complete 6 credits			
Subtotal of General Education Transfers	31	Subtotal of General Education	60

State Technical College of Missouri – AAS in Nuclear Technology Radiation Protection Option	Credits	Thomas Edison State University – Nuclear Energy Engineering Technology (NEET)	Credits 51
		Area of Study: (At least 12 credits of Area of Study must be 300-400 level courses)	
Need to complete 3 credits		Nuclear Physics for Technology (NUC-303)	
Need to complete 3 credits		Thermodynamics	
Need to complete 3 credits		Heat Transfer	
(MNT 110) Mechanical & Fluid Power Transmission	1	Fluid Mechanics	
(MNT 189) Reactor Plant Components	4	Reactors and Plant Systems (9 credits) <ul style="list-style-type: none"> • Reactor Fundamentals (NUC-365) (3 credits) • Primary Reactor Systems (NUC-331) (3 credits) • Nuclear Instrumentation and Control (NUC-351) (3 credits) 	
(MNT 197) Basic Reactor Safety, Theory, and Operations Need to complete 1 credit	4		
(MNT 114) Introduction to Radiation Safety (Need to complete 2 credits)	4	Radiation Effects (9 credits) <ul style="list-style-type: none"> • Radiation Biophysics (NUC-412) (3 credits) • Radiation Interactions (NUC-413) (3 credits)OR • Radiological, Reactor & Environmental Safety (NUC-342) (3 credits) 	
(MAR 101) Introduction to Electricity	4	Electrical Theory (ELE-211 or ELE-212) (3 credits)	
Need to complete 3 credits		Nuclear Materials (NUC-402) (3 credits)	
Need to complete 1 credit		Radiation Analysis Laboratory (1 credit)	
(MNT 223) Radiation Detection	4	Nuclear Electives <ul style="list-style-type: none"> • Military/INPO Discipline Training including Laboratory/Practicum OR • Nuclear Rules & Regulations (NUC-380) • Radiation Protection/Health Physics (Course not used as other requirement) • Occupational Health and Safety (APS-400) (3 credits) • Applied Quality Management (APS-300) (3 credits) • Regulatory Policy and Procedures (EUT-401) • Applied Economic Analysis (EUT-402) (3 credits) <i>Required credits from academically reviewed training/experiences OR above listed courses</i>	
(MNT 233) Radiation Dosimetry	3		
(MNT 247) Radiation Protection	4		
Need to complete 3 credits		Nuclear Technology Assessment/Career Planning (NUC-490) (3 credits)	
Need to complete 4 credits		Nuclear Engineering Technology Capstone (NUC-495) (4 credits)	

State Technical College of Missouri – AAS in Nuclear Technology Radiation Protection Option	Credits	Thomas Edison State University – Nuclear Energy Engineering Technology (NEET)	Credits
(CPP 101) Introduction to Microcomputer Usage (MNT 100) Human Performance Fundamentals (MNT 211) Piping and Instrumentation Drawings (MNT 290) Internship Need to complete 5 credits	3 2 2 4	Free Electives	15
Total Transferred	70	Total Credits for Degree	126
		*Degree Requirements ➤ Technical Writing 3 credits ➤ Statistics 3 credits ➤ Calculus I 3 credits ➤ Calculus II 3 credits ➤ Physics I with Lab 4 credits ➤ Physics II with Lab 4 credits ➤ Chemistry I with Lab 4 credits ➤ Computer Programming Requirement or Programmable Logic Controllers (CTR-212) 3 credits	