

**State Technical College of Missouri AAS in Nuclear Technology Radiation Protection Option to  
Thomas Edison State University BSAST in Energy Systems Technology**

<b>State Technical College of Missouri - AAS in Nuclear Technology Radiation Protection Option</b>	<b>Credit</b>	<b>Thomas Edison State University BSAST - Energy Systems Technology</b>	<b>Credits</b>
<i>GENERAL EDUCATION</i>			
		<i>GENERAL EDUCATION</i>	
		<b>Intellectual and Practical Skills (15 Credits)</b>	<b>15</b>
		Written Communications (6 credits)	
(COM 101) English Composition	3	English Composition (3 credits)	
Need to complete 3 credits		English Composition II (3 credits) (Need to complete)	
(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		<b>Civic and Global Learning</b>	<b>9</b>
		Ethics Course (3 credits)	
		Diversity Course (3 credits)	
		Civic Engagement (3 credits)	
Need to complete 9 credits		<b>Knowledge of Human Cultures</b>	<b>9</b>
(PSC 101) American Government	3	<b>Understanding of the Physical and Natural World</b>	<b>8</b>
Need to complete 5 credits			
(MNT 107) Basic Nuclear Math and Theory	4	<b>Mathematics</b>	<b>3</b>
(PHY 101/102) College Physics with lab	4	<b>General Education Electives</b>	<b>16</b>
(PHY 121) General Chemistry I	5		
(COM 125) Job Search Strategies	1		
Need to complete 6 credits			
<b>Subtotal of General Education Transfers</b>	<b>28</b>	<b>Subtotal of General Education</b>	<b>60</b>

State Technical College of Missouri AAS in Nuclear Technology Radiation Protection Option	Credits	Thomas Edison State University BSAST – Energy Systems Technology	Credits
		<b>Area of Study:</b> (At least 12 credits of Area of Study must be 300-400 level courses)	<b>45</b>
		Energy Utility Technology – Core (15 credits)	
Need to complete 6 credits		Electrical Theory (6 credits) DC Circuits (ELE-211) (3 credits) AC Circuits (ELE-212) (3 credits)	
Need to complete 3 credits		Applied Quality Management (APS-402) (3 credits)	
Need to complete 3 credits		Occupational Safety & Health (APS-400) (3 credits)	
Need to complete 3 credits		Current Trends and Applications (APS-401) (3 credits)	
(MNT 247) Radiation Protection (MNT 114) Introduction to Radiation Safety (MNT 223) Radiation Detection (MNT 233) Radiation Dosimetry (MAR 110) Mechanical & Fluid Power Transmission (MNT 189) Reactor Plant Components (MNT 197) Basic Reactor Safety, Theory, and Operations (MAR 101) Introduction to Electricity	4 4 4 3 3 4 4 4	Energy Specialty: (Select 30 Credits from Areas Below) <ul style="list-style-type: none"> <li>• Nuclear Operations &amp; Maintenance</li> <li>• Plant Operations &amp; Maintenance</li> <li>• Gas Distribution</li> <li>• Electric Transmission &amp; Distribution</li> <li>• Instrumentations &amp; Control</li> <li>• Appliance Service</li> <li>• Alternative Energy Technologies</li> <li>• Energy Management</li> <li>• Sustainable Energy</li> <li>• Regulatory Policy &amp; Procedures (EUT-401)</li> <li>• Applied Economic Analysis (EUT-402)</li> </ul>	

State Technical College of Missouri AAS in Nuclear Technology Radiation Protection Option	Credits	Thomas Edison State University BSAST – Energy Systems Technology	Credits
(CPP 101) Introduction to Microcomputer Usage (MNT 211) Piping and Instrumentation Drawings (MNT 290) Internship (MNT 100) Human Performance Fundamentals Need to complete 5 credits	3 2 4 2	<b>Free Electives</b>	<b>15</b>
	<b>69</b>	<b>Total Credits for Degree</b>	<b>120</b>
		<ul style="list-style-type: none"> <li>• <b>*Degree Requirements</b></li> <li>• <b>Technical Writing</b> <span style="float: right;"><b>3 credits</b></span></li> <li>• <b>Computer Concepts (CIS-107) or above</b> <span style="float: right;"><b>3 credits</b></span></li> <li>• <b>Statistics</b> <span style="float: right;"><b>3 credits</b></span></li> <li>• <b>College Algebra</b> <span style="float: right;"><b>3 credits</b></span></li> <li>• <b>Higher Level Mathematics above College Algebra</b> <span style="float: right;"><b>3 credits</b></span></li> <li>• <b>Physics I with Lab</b> <span style="float: right;"><b>4 credits</b></span></li> <li>• <b>Physics II with Lab</b> <span style="float: right;"><b>4 credits</b></span></li> </ul>	