

**Table 1: Nuclear Science and Engineering Education Program Outcomes**

Nuclear Engineering Outcomes	ABET Engineering Outcomes
1. Apply knowledge of math, science, and engineering.	a. An ability to apply knowledge of mathematics, science and engineering.
2. Design systems involving people, materials, equipment and energy.	c. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
3. Identify, formulate and solve engineering problems.	e. An ability to identify, formulate and solve engineering problems.
4. Design and conduct experiments.	b. An ability to design and conduct experiments, as well as to analyze and interpret data.
5. Collect, analyze and interpret data.	
6. Model engineering issues quantitatively and draw appropriate inferences.	
7. Use modern computer tools to analyze and improve engineering systems.	k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
8. Function on project teams.	d. An ability to function on multi-disciplinary teams.
9. Communicate effectively, both orally and in writing.	g. An ability to communicate effectively.
10. Understand professional and ethical responsibilities of engineers.	f. An understanding of professional and ethical responsibility
11. Understand engineering solutions in a global and societal context.	h. The broad education necessary to understand the impact of engineering solutions in a global and societal context.
12. Appreciate the need for and availability of lifelong learning	i. Recognition of the need for, and an ability to engage in lifelong learning.
13. Possess a knowledge of contemporary economic, social and political issues	j. Knowledge of contemporary issues.