BSENVE STUDENT OUTCOMES

The UGA EnvE Program has adopted and is using the ABET Student Outcomes (a) through (k) as listed below. These Student Outcomes are documented in the syllabus for each EnvE course:

a) An ability to apply knowledge of mathematics, science, and engineering;
b) An ability to design and conduct experiments, as well as to analyze and interpret data;
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.
d) An ability to function on multi-disciplinary teams;
e) An ability to identify, formulate, and solve engineering problems;
f) An understanding of professional and ethical responsibility;
g) An ability to communicate effectively;
h) The broad education necessary to understand the impact of engineering solutions in a global economic, environmental and societal context;
i) A recognition of the need for, and an ability to engage in, life-long learning;
j) A knowledge of contemporary issues;
k) An ability to use techniques, skills, and modern engineering tools necessary for engineering practice.
### Relationship between the EnvE Program Educational Objectives and Student Outcomes

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<tr>
<th>Program Educational Objectives</th>
<th>Student Outcomes</th>
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| (1) Achieved a high level of expertise to create design solutions for environmental problems that require integration of environmental and human health constraints compatible with economic growth, sustainable development and ethical standards | a) an ability to apply knowledge of mathematics, science, and engineering  
b) an ability to design and conduct experiments, as well as to analyze and interpret data  
c) an ability to design a system, component, or process to meet desired needs  
d) an ability to function on multi-disciplinary teams  
e) an ability to identify, formulate, and solve engineering problems  
f) an understanding of professional and ethical responsibility  
g) an ability to communicate effectively  
h) the broad education necessary to understand the impact of engineering solutions in a global and societal context  
j) a knowledge of contemporary issue  
k) an ability to use techniques, skills, and modern engineering tools necessary for engineering practice |
| (2) Established themselves in positions of leadership in their profession and their community   | d) an ability to function on multi-disciplinary teams  
e) an ability to identify, formulate, and solve engineering problems  
g) an ability to communicate effectively  
h) the broad education necessary to understand the impact of engineering solutions in a global and societal context  
k) an ability to use techniques, skills, and modern engineering tools necessary for engineering practice |
| (3) Continued their education through professional licensure, certification, or pursuit of a graduate degree | f) an understanding of professional and ethical responsibility  
g) an ability to communicate effectively  
i) a recognition of the need for and an ability to engage in life-long learning |