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<th>SSE Program Educational Objectives</th>
<th>SSE Program Outcomes</th>
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| I. Graduates from the SSE Program will successfully integrate the fundamentals of systems science and engineering with design tools/methodologies to architect innovative systems that solve complex technological problems | Outcome a: an ability to apply knowledge of mathematics, science, and engineering.  
Outcome b: an ability to design and conduct experiments, as well as to analyze and interpret data.  
Outcome 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.  
Outcome e: an ability to identify, formulate, and solve engineering problems.  
Outcome k: an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.                                                                                     |
| II. Possess effective communication skills, excel in multi-disciplinary and multi-cultural teams, and have an appreciation for non-technical disciplines                      | Outcome d: an ability to function on [in?] multi-disciplinary teams.  
Outcome g: an ability to communicate effectively.  
Outcome h: the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.  
Outcome j: knowledge of contemporary issues.                                                                                                                                 |
| III. Be prepared to launch their careers or pursue graduate studies in systems science and engineering or their chosen field; and engage in life-long learning                        | Outcome i: recognition of the need for, and an ability to engage in, life-long learning.  
Outcome k: an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.                                                                                                                                 |
| IV. Be recognized in their chosen fields for their leadership, integrity, understanding, and sensitivity to global societal issues                                  | Outcome f: an understanding of professional and ethical responsibility.  
Outcome h: the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.  
Outcome j: knowledge of contemporary technical issues.                                                                                                                                 |