Relationship between Program Educational Objectives and Program Outcome

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<th>CMPE Program Educational Objectives</th>
<th>CMPE Program Outcomes</th>
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| I. Graduates of the CMPE program will successfully integrate the fundamentals of computer engineering and design/realization practices to develop innovative solutions to 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. Graduates of the CMPE program will possess excellent 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 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. Graduates of the CMPE program will be prepared to launch their careers or pursue graduate studies in computer engineering, networking and telecommunications engineering, embedded and real-time systems, robotics, parallel and distributed computing, 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. Graduates of the CMPE program will be recognized in their chosen fields for their leadership, integrity 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 issues. |