

2018-19F	Fall Semester	CE 370	Civil and Environmental Engineering																																
Student	a					b					d					e					f					h					k				
	Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5	Q1	Q2	Q3	Q4	Q5
13	3	4	4	4	3	4	4	3	4	4	3	3	4	4	4	4	3	4	4	4	4	4	3	4	4	3	4	3	3	4	4	4	4	3	3
14	4	4	3	4	5	5	4	4	5	3	5	4	4	5	5	4	4	4	4	5	4	3	5	4	3	4	4	4	5	3	3	3	4	5	5
15	3	3	3	4	4	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4		3	3	3	3	4	3	4	3	3	3	4
16	3	3	4	3	4		4	3	3	4	2	3	2	3	2	3	3	2	3	3	3	2	3	2	3	3	3	3	2	2	4	2	4	3	3
17	3	4	4	3	4	3	4	3	4	3	3		4	5	5	4	4	4	3	4	3	3	4	5	4										
Average	3.92					3.92					3.82					3.85					3.98					3.83					3.84				
%eg	78.35					78.33					76.43					76.94					79.52					76.57					76.86				

Outcome a: An ability to apply knowledge of mathematics, science, and engineering

	1	2	3	4	5
To what degree do you use mathematical and/or scientific principles to model the behavior of engineering systems					
To what degree do you translate academic theory into engineering applications					
To what degree do you accept limitations of mathematical models of physical reality					
To what degree do you execute calculations correctly either by hand or by mathematical software					
To what degree do you correctly analyze data sets using statistical concepts					

Outcome b: An ability to design and conduct experiments, as well as to analyse and interpret data

	1	2	3	4	5
To what degree do you observe good laboratory safety procedures					
To what degree do you formulate an experimental plan of data gathering and saving					
To what degree are you able to select and operate experimental equipment					
To what degree are you able to analyze and interpret data					
To what degree do you accept measurement errors					

Outcome d: An ability to function on multidisciplinary teams

	1	2	3	4	5
To what degree do you Routinely present at team meetings or work sessions. Is prepared for group meeting with some ideas.					
To what degree do you Perform duties that are assigned					
To what degree do you listen and involve others in the team decisions and actions. Values individual differences and talents					
To what degree do you Contribute to establishing team goals. Has plan to accomplish the set goals					
To what degree do you distinguish Values individual differences and talents					

Outcome e: An ability to identify, formulate, and solve engineering problems

	1	2	3	4	5
To what degree do you relate theoretical concepts to practical problem solving					
To what degree do you predict and defend problem outcomes					
To what degree do you use appropriate resources to locate information needed to solve problems					
To what degree do you take new information and effectively integrates it with previous knowledge					
To what degree do you formulate strategies for solving problems					

Outcome f: An understanding of professional and ethical responsibility

	1	2	3	4	5
To what degree do you understand and abide by the Code of Ethics and the Code of Conduct					
To what degree do you participate in class discussions and exercises on ethics and professionalism					
To what degree do you take personal responsibility for your actions					
To what degree are you attend classes regularly					
To what degree do you use personal value system to support actions					

Outcome h: The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.

	1	2	3	4	5
To what degree are you familiar with the current trends in the engineering and technology disciplines					
To what degree do you respect the historical aspects of engineering solutions and their impacts					
To what degree do you value the importance of engineering in today's world					
To what degree do you follow the needs of the current job market					
To what degree do you able to discuss major political and economic issues at national and local levels					

Outcome k: An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

	1	2	3	4	5
To what degree do you adequate knowledge to complete the project					
To what degree do you able to select and use tools and standards that may fit the project, with occasional guidance					
To what degree do you give enough time and able to learn new tools and skills					
To what degree do you Gives 2 or more discussions that reference the use of standard equipment for engineering system design, control, or analysis					
To what degree can you discuss and demonstrate aware of the importance of specific design techniques or analysis approaches					