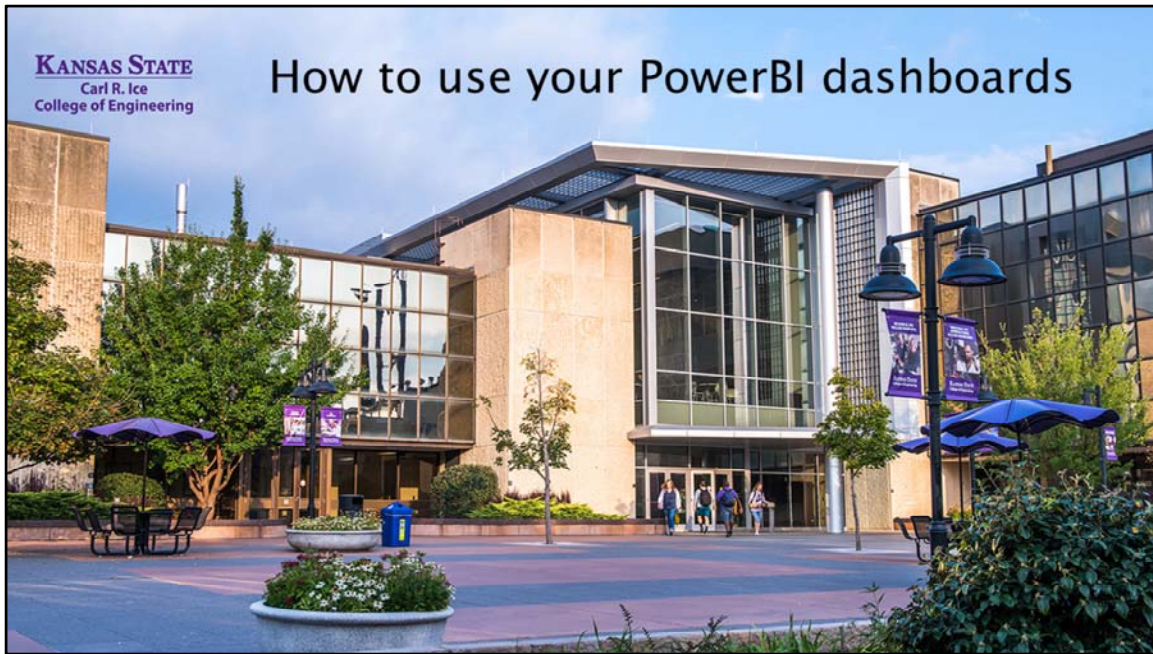
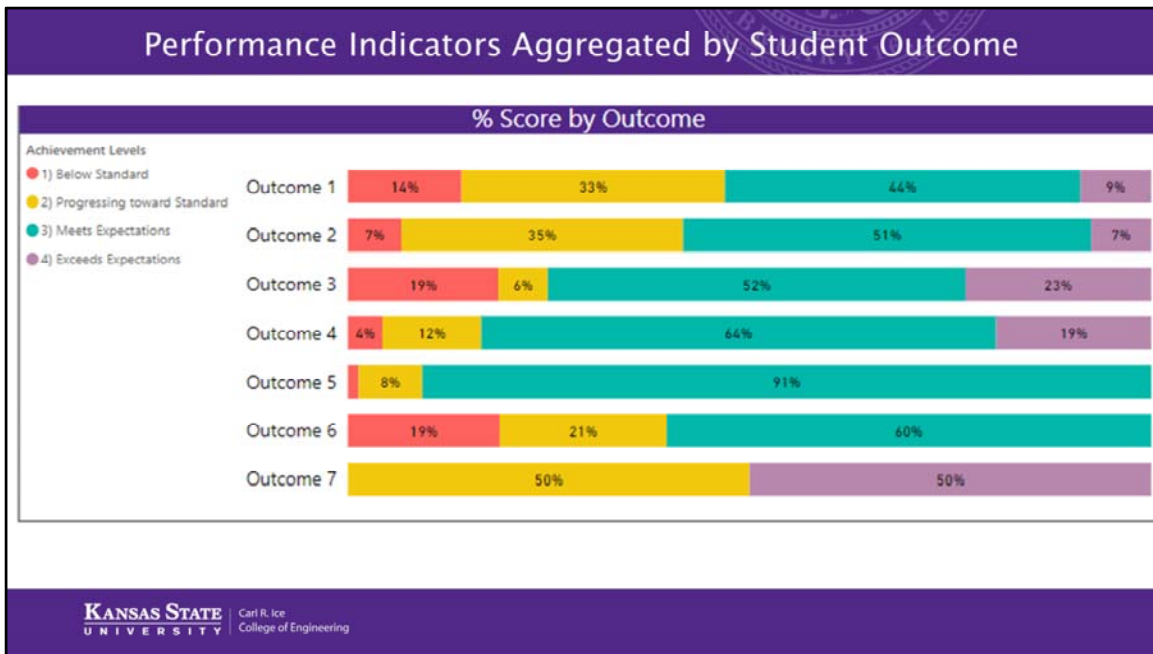


Video #9 - How to use your PowerBI dashboards

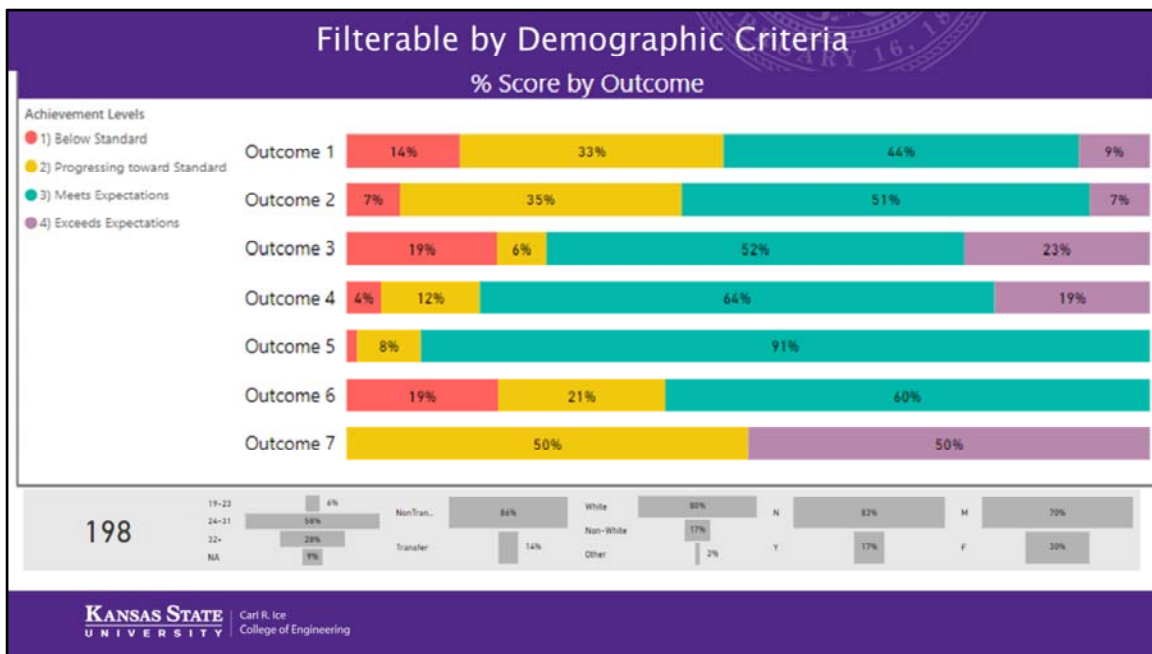


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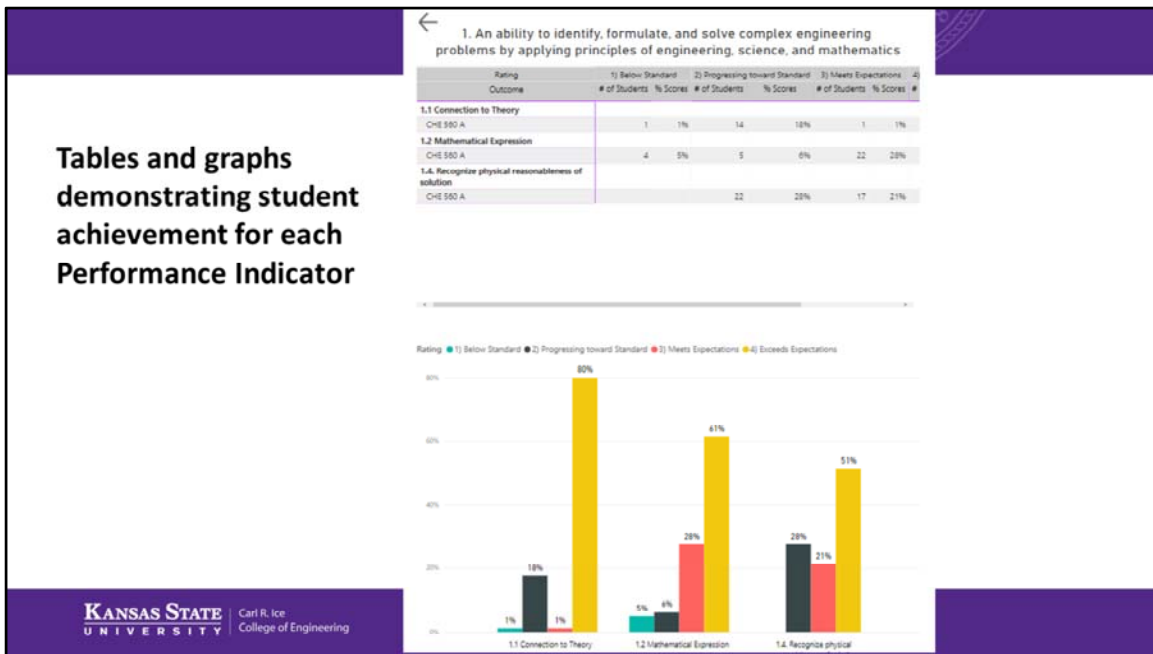
In an assessment dashboard created for your program, all scores collected are combined and viewable for the accumulated Performance Indicators within each Student Outcome.

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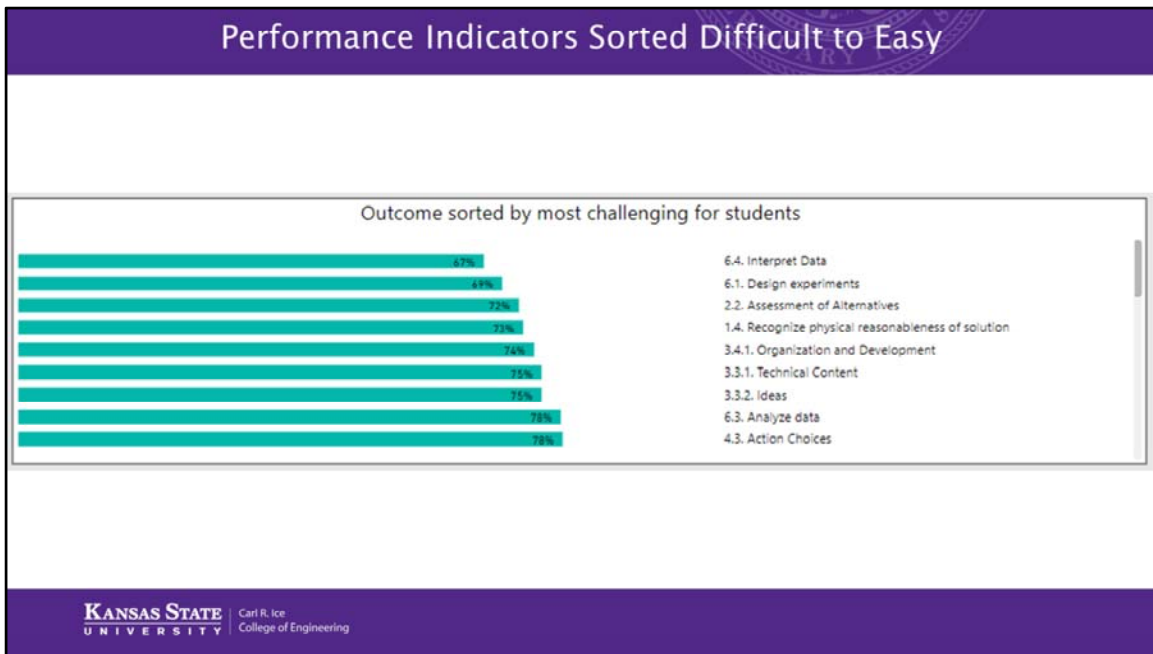
Each graph can be filtered and viewed by demographic category seen at the bottom of the screen by simply clicking on what group you want to look at.

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We can provide tables and graphs demonstrating achievement for each Performance Indicator.

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We provide a graph sorting all Performance Indicators from the most difficult for students to the highest achieved.

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Table of Data Collected Each Term

of Students Assessed in Courses Submitted

Outcome and Criteria Assessed	CHE 542 D18	CHE 542 A	CHE 542 B	CHE 542 C	CHE 542 D	CHE 550 A	CHE 565 A	CHE 565 2A	CHE 570 A	CHE 571 A	CHE 571 B
1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.						80					
Connection to Theory						80					
Mathematical Expression						80					
Recognize physical reasonableness of solution						80					
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.						80	190	1		36	38
Application of engineering principles						80				35	38
Assessment of Alternatives						80				35	38
Consideration of design problem and boundaries						80				35	38
Consideration of global, cultural, and societal factors							186			17	36
Consideration of safety						80	190	1		35	38
Health and environmental concerns							190	1		35	38
Use of Modern Engineering Tools						80				35	38
Valid Process Economics						80				35	38
3. An ability to communicate effectively with a range of audiences.	65	37	38	35	17						
Fluency	65	36	38	34	16						
Ability to adjust communication to the audience	65	36	38	34	16						
Ability to answer questions following a technical presentation	65	36	38	34	17						
Ability to present information orally	65	36	38	34	17						
Ideas	65	36	38	34	16						
Organization and Development	65	36	38	34	16						
Technical Content	65	37	37	34	16						
Voice/Tone	65	36	38	34	16						
Word Choice	65	36	38	34	16						
Writing Conventions	65	36	37	35	16						
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.									76	34	38
Action Choices									70	34	38
Professional codes of conduct									76		
Recognize unethical situations									70	34	38
Stakeholder identification									70	34	38
5. An ability to function effectively on a team whose members...										15	18
Total	65	54	56	49	34	80	190	1	76	36	38



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We provide tables indicating how many students are assessed each term for each Student Outcome and Performance Indicator in each selected course

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Table of Data Collected Each Term

Outcome and Criteria Assessed	# of Students Assessed on Specific Assignment										ACQ	
	1.1	1.2	1.4	2.1	2.2	2.3	2.4	2.5	2.5. Consideration of Safety	2.6		2.7. Health and environmental concerns
1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics	80	80	80									
Connection to Theory	80											
Mathematical Expression	80											
Recognize physical reasonableness of solution		80										
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors			80	80	80	80	80	48	80	48		43
Application of engineering principles			80									
Assessment of Alternatives			80									
Consideration of design problem and boundaries			80									
Consideration of global, cultural, and societal factors												43
Consideration of Safety							80	48				
Health and environmental concerns									80	48		
Use of Modern Engineering Tools					80							
Vital Process Economics									80			
3. an ability to communicate effectively with a range of audiences												
Fluency												
Ability to adjust communication to the audience												
Ability to answer questions following a technical presentation												
Ability to present information orally												
Ideas												
Organization and Development												
Technical Content												
Voice/Tone												
Word Choice												
Writing Conventions												
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts												
Action Choices												
Professional codes of conduct												
Recognize unethical situations												
Stakeholder identification												
Total	80	80	80	80	80	80	80	48	80	48		43


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And tables indicating the assignments collecting data for each Performance Indicator and how many students were assessed each term.

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Printable Summary

← Assessment for Chemical Engineering

Rating/Outcome Factor	1) Below Standard		2) Progressing toward Standard		3) Meets Expectations	
	# of Students	% Score	# of Students	% Score	# of Students	% Score
1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics						
1.1 Connection to Theory	1	1%	14	16%	7	1%
1.2 Mathematical Formulation	4	3%	9	6%	22	23%
1.4 Recognize physical realizability of solution			22	28%	17	21%
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors						
2.1 Consideration of design problem and boundaries			23	18%	93	33%
2.2 Assessment of Alternatives	38	24%	7	3%	86	44%
2.3 Application of engineering principles	8	6%	9	3%	87	44%
2.4 Use of Modern Engineering Tools	4	3%	3	2%	38	24%
2.5 Consideration of Safety			38	10%	127	45%
2.6 Valid Process Economics			12	3%	121	68%
2.7 Health and environmental concerns	2	1%	21	3%	84	32%
2.8 Consideration of global, cultural, and societal factors			21	3%	98	47%
3. An ability to communicate effectively with a range of audiences						
3.1 Ability to present information orally			2	1%	3	2%
3.2 Ability to answer questions following a technical presentation	3	2%	19	10%	86	33%
3.3 Technical Content			47	20%	133	54%
3.3.2 Detail			47	20%	88	51%
3.4 Organization and Development			48	23%	82	33%
3.4.1 Word Choice			10	3%	20	11%
3.4.2 Fluency			14	7%	84	33%
3.4.3 Writing Conventions					118	39%
3.4.3.1 since/Time			27	20%	75	34%
3.5 Ability to adjust communication to the audience			10	5%	17	10%


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PowerBI can provide a printable accumulative report of each Student Outcome and Performance Indicator for each assessed level of achievement

If there are other tables or graphs that your program needs, contact Mark Clarke.