

Student Survey Responses

#	Item	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	Mean	Stdev	2+	<u>1</u>	ttest
1	Research assignments that used the rubrics were returned graded faster than similar assignments in other science courses	4	3	5	4	3	3	3	4	5	3	5	3	3	4	4	4	2	3	3	3	3.55	0.83	3.75	3.25	0.175
2	The assignments that used the rubrics provided better feedback than similar assignments in other science courses	3	2	2	4	3	3	3	5	4	3	4	4	4	4	3	4	3	3	4	4	3.45	0.76	3.33	3.63	0.367
3	The assignments that used the rubrics fostered more reflection on my own learning than similar assignments in other science courses	2	5	2	4	3	2	4	4	3	4	4	4	4	5		3	3	3	4	3	3.47	0.90	3.42	3.57	0.713
4	I prefer courses that use the rubrics to courses that do not	2	4	2	4	3	2	5	3	4	3	5	3	4	4	4	3	4	3	5	4	3.55	0.94	3.33	3.88	0.175
5	Because of my professors' use of rubrics, the research products that I produce (e.g. papers, oral presentations, and posters) have improved	4	4	4	5	4	3	4	5	4	2	5	4	4	5	3	3	2	3	5	2	3.75	1.02	4.00	3.38	0.224
6	Because of my professors' use of rubrics, I experience greater anxiety over my research assignments than in other science courses	2	3	2	2	4	3	1	1	3	3	2	2	4	5	2	3	4	3	2	4	2.75	1.07	2.33	3.38	0.039
7	Because of my professors' use of rubrics, I more clearly understand my professor's teaching objectives	4	5	5	5	4	4	4	4	4	4	5	5	4	4	4	4	3	3	5	2	4.10	0.79	4.42	3.63	0.051
8	Because of my professors' use of the rubrics, I have a better awareness of my own ability to learn material and the ways in which I learn	4	4	2	4	2	3	4	3	2	2	4	4	4	5	2	3	2	3	5	3	3.25	1.02	3.17	3.38	0.684
9	Because of my professors' use of the rubrics, I better understand the scientific concepts involved in the research project	5	3	4	4	3	3	4	5	3	4	4	3	4	5	3	4	2	3	5	2	3.65	0.93	3.75	3.50	0.610

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10	Because of my professors' use of the rubrics, I have better higher order cognitive skills (analysis, synthesis, application and evaluation)	5	3	2	4	3	3	4	4	4	3	5	3	3	5	4	2	3	4	3	3.53	0.90	3.58	3.43	0.738	
11	Because of my professors' use of the rubrics, I have a better understanding of the 'nature of science'	5	4	2	4	3	3	4	5	5	4	4	3	3	4	2	4	4	3	3	2	3.55	0.94	3.83	3.13	0.095
12	Because of my professors' use of the rubrics, I have improved in my scientific communication skills (for example, I write better)	4	4	3	4	3	3	3	4	4	3	5	4	3	4	3	4	1	3	4	2	3.40	0.88	3.67	3.00	0.144
13	The use of the rubrics has improved EMU's overall undergraduate science program	4	4	3	4	4	3	4	4	5	3	5	4	3	4	4	4	4	3	5	4	3.90	0.64	3.92	3.88	0.890
14	The use of the rubrics has improved my learning	4	4	3	4	3	3	4	5	5	3	5	4	4	4	3	4	2	3	4	3	3.70	0.80	3.92	3.38	0.140
15	The use of the rubrics has hindered my learning	2	2	3	2	3	3	2	1	3	3	2	2	3	1	1	2	1	3	1	3	2.15	0.81	2.33	1.88	0.273
16	I am grateful for the rubrics	4	4	4	4	3	3	4	4	4	4	5	5	4	4	4	4	3	3	5	3	3.90	0.64	4.00	3.75	0.426
17	I fail to see the reason for using rubrics	2	1	2	2	5	2	1	2	1	2	2	1	1	1	2	2	4	3	1	2	1.95	1.05	1.92	2.00	0.867
	# of courses	2	2	3	3	2	2	2	3	3	2	3	3	1	1	1	1	1	1	1	1	1.90	0.85	2.50	1.00	3E-06

(Directions) Likert Items: Rate the following using the scale: 5 = strongly agree, 4 = agree, 3 = neither agree nor disagree, 2 = disagree, and 1 = strongly disagree (leave item blank if it doesn't apply):