

2018 Alumni Survey

College Comparisons of Undergraduate Education Goals Problem Solving Skills Frequency Distributions

Importance of Problem Solving Skills

Importance: Problem solving skills overall

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Very important	89.8%	91.5%	94.7%	87.5%	95.9%	86.8%	85.4%	91.9%	88.5%	86.9%	84.6%
3: Somewhat important	9.4%	7.8%	5.3%	11.3%	3.9%	11.9%	13.4%	7.4%	11.5%	12.5%	15.4%
2: Not very important	0.7%	0.7%	.	1.3%	0.2%	1.3%	1.3%	0.8%	.	0.3%	.
1: Not at all important	0.0%	.	.	.	.	.	.	.	.	0.3%	.
Total (N)	2,320	295	57	80	488	159	554	258	104	312	13

Importance: Defining problems

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Very important	78.3%	79.0%	78.6%	74.7%	84.4%	64.8%	73.8%	82.8%	80.8%	79.5%	76.9%
3: Somewhat important	19.7%	19.7%	19.6%	22.8%	15.2%	33.3%	23.1%	15.2%	17.3%	17.6%	23.1%
2: Not very important	1.8%	1.4%	1.8%	2.5%	0.4%	1.9%	2.9%	1.6%	1.9%	2.6%	.
1: Not at all important	0.1%	.	.	.	.	.	0.2%	0.4%	.	0.3%	.
Total (N)	2,315	295	56	79	487	159	554	256	104	312	13

2018 Alumni Survey

College Comparisons of Undergraduate Education Goals Problem Solving Skills Frequency Distributions

Importance: Examining problems from multiple perspectives

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Very important	78.6%	81.8%	78.9%	82.5%	80.1%	65.6%	79.6%	79.4%	78.6%	76.3%	76.9%
3: Somewhat important	19.0%	16.2%	21.1%	15.0%	18.0%	31.3%	18.4%	17.9%	21.4%	18.9%	23.1%
2: Not very important	2.1%	2.0%	.	1.3%	1.8%	2.5%	1.8%	1.9%	.	4.2%	.
1: Not at all important	0.3%	.	.	1.3%	.	0.6%	0.2%	0.8%	.	0.6%	.
Total (N)	2,321	296	57	80	488	160	555	257	103	312	13

Importance: Breaking down complex topics to enhance understanding

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Very important	73.0%	70.7%	64.9%	76.3%	78.0%	59.1%	72.3%	77.9%	74.0%	72.0%	69.2%
3: Somewhat important	21.9%	24.2%	26.3%	18.8%	18.9%	34.0%	21.9%	16.3%	18.3%	24.4%	23.1%
2: Not very important	4.5%	5.1%	8.8%	5.0%	3.1%	5.7%	4.7%	4.7%	7.7%	3.2%	7.7%
1: Not at all important	0.5%	.	.	.	.	1.3%	1.1%	1.2%	.	0.3%	.
Total (N)	2,319	297	57	80	487	159	553	258	104	311	13

2018 Alumni Survey

College Comparisons of Undergraduate Education Goals Problem Solving Skills Frequency Distributions

Importance: Identifying relevant ideas/information

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Very important	75.9%	74.5%	70.2%	81.3%	77.2%	67.7%	75.6%	75.1%	77.5%	79.8%	69.2%
3: Somewhat important	21.4%	24.5%	26.3%	15.0%	20.7%	29.7%	20.6%	22.2%	19.6%	17.3%	30.8%
2: Not very important	2.6%	1.0%	3.5%	3.8%	2.1%	2.5%	3.6%	2.3%	2.9%	2.9%	.
1: Not at all important	0.1%	.	.	.	.	.	0.2%	0.4%	.	.	.
Total (N)	2,309	294	57	80	487	158	554	257	102	307	13

Importance: Using information technologies and search strategies to access information

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Very important	66.7%	66.0%	61.4%	68.4%	67.5%	60.1%	63.6%	72.1%	72.1%	69.1%	61.5%
3: Somewhat important	25.4%	24.6%	29.8%	25.3%	26.2%	29.7%	27.7%	19.8%	19.2%	24.1%	38.5%
2: Not very important	7.2%	9.4%	8.8%	6.3%	5.5%	8.2%	7.6%	7.8%	6.7%	6.8%	.
1: Not at all important	0.7%	.	.	.	0.8%	1.9%	1.1%	0.4%	1.9%	.	.
Total (N)	2,321	297	57	79	489	158	555	258	104	311	13

2018 Alumni Survey

College Comparisons of Undergraduate Education Goals Problem Solving Skills Frequency Distributions

Importance: Critically analyzing and evaluating ideas/information

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Very important	78.5%	78.8%	80.7%	78.8%	81.4%	66.5%	77.8%	79.2%	76.0%	80.8%	84.6%
3: Somewhat important	18.7%	17.5%	15.8%	17.5%	16.8%	29.1%	19.8%	17.3%	21.2%	16.9%	7.7%
2: Not very important	2.5%	3.4%	3.5%	3.8%	1.4%	3.8%	2.0%	2.7%	2.9%	2.2%	7.7%
1: Not at all important	0.3%	0.3%	.	.	0.4%	0.6%	0.4%	0.8%	.	.	.
Total (N)	2,325	297	57	80	488	158	555	260	104	313	13

Importance: Integrating ideas/information from multiple sources

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Very important	71.2%	72.9%	73.7%	78.8%	68.9%	62.0%	72.5%	73.5%	67.3%	71.8%	84.6%
3: Somewhat important	23.6%	21.4%	24.6%	18.8%	26.2%	29.7%	22.8%	20.4%	25.0%	24.0%	7.7%
2: Not very important	4.7%	5.1%	1.8%	2.5%	4.3%	7.6%	4.0%	5.8%	7.7%	4.2%	7.7%
1: Not at all important	0.5%	0.7%	.	.	0.6%	0.6%	0.7%	0.4%	.	.	.
Total (N)	2,321	295	57	80	489	158	553	260	104	312	13

2018 Alumni Survey

College Comparisons of Undergraduate Education Goals Problem Solving Skills Frequency Distributions

Importance: Constructing clear, precise, and accurate arguments

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Very important	66.1%	62.3%	66.7%	63.8%	68.0%	58.2%	69.4%	65.8%	57.7%	68.4%	69.2%
3: Somewhat important	24.0%	25.3%	22.8%	22.5%	24.4%	29.7%	20.6%	28.1%	31.7%	20.4%	15.4%
2: Not very important	8.7%	11.1%	10.5%	13.8%	7.2%	8.9%	9.0%	3.8%	8.7%	9.9%	15.4%
1: Not at all important	1.2%	1.3%	.	.	0.4%	3.2%	0.9%	2.3%	1.9%	1.3%	.
Total (N)	2,322	297	57	80	487	158	553	260	104	313	13

Importance: Combining/synthesizing existing ideas/information in original ways

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Very important	60.8%	62.1%	64.9%	66.3%	59.7%	51.3%	63.7%	61.4%	51.9%	61.9%	53.8%
3: Somewhat important	27.4%	26.5%	26.3%	26.3%	27.2%	35.4%	26.4%	26.6%	31.7%	25.3%	38.5%
2: Not very important	10.4%	11.1%	8.8%	7.5%	11.5%	12.7%	8.5%	9.7%	12.5%	11.2%	7.7%
1: Not at all important	1.4%	0.3%	.	.	1.6%	0.6%	1.4%	2.3%	3.8%	1.6%	.
Total (N)	2,324	298	57	80	489	158	554	259	104	312	13

2018 Alumni Survey

College Comparisons of Undergraduate Education Goals Problem Solving Skills Frequency Distributions

Importance: Generating innovative solutions

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Very important	66.7%	65.0%	78.6%	67.5%	70.5%	60.5%	64.9%	67.2%	72.1%	63.5%	76.9%
3: Somewhat important	25.8%	26.9%	16.1%	30.0%	24.2%	31.2%	27.2%	22.8%	21.2%	27.1%	15.4%
2: Not very important	6.6%	7.7%	5.4%	2.5%	4.7%	8.3%	6.2%	8.5%	4.8%	8.4%	7.7%
1: Not at all important	1.0%	0.3%	.	.	0.6%	.	1.8%	1.5%	1.9%	1.0%	.
Total (N)	2,316	297	56	80	488	157	552	259	104	310	13

NC State Contribution to Development of Problem Solving Skills

Contrib. to Development: Problem solving skills overall

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Good preparation	54.0%	54.9%	65.4%	52.9%	65.5%	45.8%	42.0%	58.4%	58.2%	52.1%	70.0%
3: Average preparation	40.5%	39.1%	28.8%	44.1%	31.0%	46.5%	51.6%	34.0%	38.8%	42.4%	30.0%
2: Fair preparation	4.5%	4.1%	5.8%	2.9%	2.8%	6.3%	4.7%	7.1%	3.1%	4.9%	.
1: Poor preparation	1.0%	1.9%	.	.	0.6%	1.4%	1.8%	0.4%	.	0.7%	.
Total (N)	2,139	266	52	68	467	142	510	238	98	288	10

2018 Alumni Survey

College Comparisons of Undergraduate Education Goals Problem Solving Skills Frequency Distributions

Contrib. to Development: Defining problems

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Good preparation	46.5%	45.8%	49.1%	47.1%	56.7%	37.1%	39.4%	46.6%	53.5%	45.5%	30.0%
3: Average preparation	45.2%	46.6%	43.4%	50.0%	36.7%	52.4%	50.2%	43.3%	38.4%	47.9%	70.0%
2: Fair preparation	7.1%	5.7%	7.5%	2.9%	5.6%	9.1%	8.5%	9.2%	8.1%	6.3%	.
1: Poor preparation	1.2%	1.9%	.	.	1.1%	1.4%	2.0%	0.8%	.	0.3%	.
Total (N)	2,135	264	53	68	466	143	508	238	99	286	10

Contrib. to Development: Examining problems from multiple perspectives

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Good preparation	48.0%	48.1%	60.4%	60.3%	47.3%	38.7%	50.0%	45.8%	47.5%	47.6%	30.0%
3: Average preparation	42.6%	43.6%	34.0%	38.2%	41.3%	49.3%	42.3%	44.5%	43.4%	41.0%	60.0%
2: Fair preparation	8.0%	6.8%	5.7%	1.5%	9.9%	9.2%	5.9%	8.8%	9.1%	10.4%	10.0%
1: Poor preparation	1.4%	1.5%	.	.	1.5%	2.8%	1.8%	0.8%	.	1.0%	.
Total (N)	2,137	264	53	68	467	142	508	238	99	288	10

2018 Alumni Survey

College Comparisons of Undergraduate Education Goals Problem Solving Skills Frequency Distributions

Contrib. to Development: Breaking down complex topics to enhance understanding

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Good preparation	47.3%	47.4%	45.3%	54.4%	50.5%	41.3%	48.7%	43.7%	50.5%	43.1%	50.0%
3: Average preparation	44.0%	44.4%	41.5%	42.6%	42.2%	46.2%	41.8%	47.1%	41.4%	48.6%	50.0%
2: Fair preparation	6.7%	6.0%	13.2%	2.9%	5.8%	9.8%	6.1%	8.0%	7.1%	6.9%	.
1: Poor preparation	2.0%	2.3%	.	.	1.5%	2.8%	3.3%	1.3%	1.0%	1.4%	.
Total (N)	2,139	266	53	68	465	143	509	238	99	288	10

Contrib. to Development: Identifying relevant ideas/information

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Good preparation	46.2%	47.7%	45.3%	52.9%	45.7%	37.8%	47.2%	43.7%	51.0%	46.9%	60.0%
3: Average preparation	46.3%	45.1%	43.4%	42.6%	46.1%	54.5%	45.2%	47.1%	42.9%	47.6%	40.0%
2: Fair preparation	6.5%	6.0%	11.3%	4.4%	7.5%	6.3%	5.9%	8.8%	6.1%	4.9%	.
1: Poor preparation	0.9%	1.1%	.	.	0.6%	1.4%	1.8%	0.4%	.	0.7%	.
Total (N)	2,139	266	53	68	466	143	509	238	98	288	10

2018 Alumni Survey

College Comparisons of Undergraduate Education Goals Problem Solving Skills Frequency Distributions

Contrib. to Development: Using information technologies and search strategies to access information

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Good preparation	46.9%	51.3%	43.4%	48.5%	47.2%	39.2%	44.8%	50.4%	49.5%	46.0%	50.0%
3: Average preparation	41.6%	41.5%	39.6%	48.5%	40.7%	50.3%	42.0%	36.6%	41.4%	40.4%	50.0%
2: Fair preparation	9.6%	5.7%	15.1%	2.9%	10.3%	9.1%	10.0%	10.9%	7.1%	11.8%	.
1: Poor preparation	2.0%	1.5%	1.9%	.	1.7%	1.4%	3.1%	2.1%	2.0%	1.7%	.
Total (N)	2,136	265	53	68	464	143	509	238	99	287	10

Contrib. to Development: Critically analyzing and evaluating ideas/information

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Good preparation	51.0%	46.8%	59.3%	52.2%	51.3%	41.7%	53.9%	49.4%	53.1%	52.3%	60.0%
3: Average preparation	43.1%	46.1%	35.2%	43.3%	41.4%	51.4%	41.4%	43.5%	42.9%	43.5%	40.0%
2: Fair preparation	5.0%	6.0%	5.6%	3.0%	6.3%	5.6%	3.3%	6.7%	4.1%	3.9%	.
1: Poor preparation	0.9%	1.1%	.	1.5%	1.1%	1.4%	1.4%	0.4%	.	0.4%	.
Total (N)	2,136	267	54	67	464	144	510	239	98	283	10

2018 Alumni Survey

College Comparisons of Undergraduate Education Goals Problem Solving Skills Frequency Distributions

Contrib. to Development: Integrating ideas/information from multiple sources

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Good preparation	48.6%	47.7%	37.0%	53.7%	43.8%	43.8%	53.1%	51.7%	50.0%	49.0%	60.0%
3: Average preparation	43.5%	43.6%	59.3%	44.8%	43.8%	49.3%	41.2%	38.7%	45.9%	44.1%	40.0%
2: Fair preparation	6.7%	7.1%	3.7%	1.5%	11.2%	4.9%	4.1%	8.8%	4.1%	5.9%	.
1: Poor preparation	1.2%	1.5%	.	.	1.3%	2.1%	1.6%	0.8%	.	1.0%	.
Total (N)	2,141	266	54	67	466	144	510	238	98	288	10

Contrib. to Development: Constructing clear, precise, and accurate arguments

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Good preparation	43.1%	40.3%	46.3%	44.8%	37.8%	34.0%	50.2%	41.0%	44.4%	46.9%	30.0%
3: Average preparation	46.1%	50.7%	44.4%	50.7%	46.5%	55.6%	41.7%	46.4%	43.4%	43.4%	70.0%
2: Fair preparation	9.3%	7.5%	9.3%	4.5%	13.1%	8.3%	6.7%	11.7%	11.1%	8.7%	.
1: Poor preparation	1.5%	1.5%	.	.	2.6%	2.1%	1.4%	0.8%	1.0%	1.0%	.
Total (N)	2,140	268	54	67	465	144	508	239	99	286	10

2018 Alumni Survey

College Comparisons of Undergraduate Education Goals Problem Solving Skills Frequency Distributions

Contrib. to Development: Combining/synthesizing existing ideas/information in original ways

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Good preparation	38.7%	36.5%	44.4%	44.8%	36.0%	36.1%	41.5%	35.7%	46.5%	39.6%	30.0%
3: Average preparation	48.6%	52.6%	37.0%	46.3%	47.5%	53.5%	49.5%	46.2%	42.4%	49.3%	60.0%
2: Fair preparation	10.6%	9.4%	18.5%	9.0%	13.1%	8.3%	6.9%	16.0%	11.1%	9.4%	10.0%
1: Poor preparation	2.1%	1.5%	.	.	3.4%	2.1%	2.2%	2.1%	.	1.7%	.
Total (N)	2,142	266	54	67	467	144	509	238	99	288	10

Contrib. to Development: Generating innovative solutions

	NC State	College/School									
		11-CALS	12-DN	13-CED	14-COE	15-CNR	16-HSS	17-COS	18-TEX	20-PCOM	24-DASA
4: Good preparation	38.5%	39.0%	57.4%	41.8%	38.0%	38.9%	35.5%	35.6%	51.5%	37.4%	50.0%
3: Average preparation	47.1%	46.8%	33.3%	52.2%	45.3%	52.1%	49.8%	43.9%	41.4%	49.5%	30.0%
2: Fair preparation	11.8%	12.0%	9.3%	6.0%	13.7%	6.9%	11.4%	17.2%	7.1%	10.7%	20.0%
1: Poor preparation	2.6%	2.2%	.	.	3.0%	2.1%	3.3%	3.3%	.	2.4%	.
Total (N)	2,145	267	54	67	466	144	510	239	99	289	10