Bowling Green State University

Graduating Student Exit Assessment (Indirect Assessment)

Data Collection Semester: Spring 2019

	Student Learning Outcome	Results
1	Create written communications appropriate to the construction discipline.	**61.90% of students met or exceeded 70%**
2	Create oral presentations appropriate to the construction discipline.	**52.38% of students met or exceeded 70%**
3	Create a construction project safety plan.	**71.43% of students met or exceeded 70%**
4	Create construction project cost estimates.	**71.43% of students met or exceeded 70%**
5	Create construction project schedules	**80.95% of students met or exceeded 70%**
6	Analyze professional decisions based on ethical principles.	**71.43% of students met or exceeded 70%**
7	Analyze construction documents for planning and management of construction processes.	**80.95% of students met or exceeded 70%**
8	Analyze methods, materials, and equipment used in construction processes.	**66.67% of students met or exceeded 70%**
9	Apply construction management skills as a member of a multidisciplinary team.	**66.67% of students met or exceeded 70%**
10	Apply electronic-based technology to manage the construction process.	**76.19% of students met or exceeded 70%**
11	Apply basic surveying techniques for construction layout and control	**71.43% of students met or exceeded 70%**
12	Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process.	**57.14% of students met or exceeded 70%**
13	Understand construction risk management.	**47.62% of students met or exceeded 70%**
14	Understand construction accounting and cost control.	**28.57% of students met or exceeded 70%**
15	Understand construction quality assurance and control.	**42.86% of students met or exceeded 70%**
16	Understand construction project control processes.	**61.90% of students met or exceeded 70%**
17	Understand the legal implications of contract, common, and regulatory law to manage a construction project.	**33.33% of students met or exceeded 70%**
18	Understand the basic principles of sustainable construction.	**52.38% of students met or exceeded 70%**
19	Understand the basic principles of structural behavior.	**80.95% of students met or exceeded 70%**
20	Understand the basic principles of mechanical, electrical and piping systems.	**42.86% of students met or exceeded 70%**

Bowling Green State University

SLO 1: Create written communications appropriate to the construction discipline

Graduating Student Exit Assessment (Indirect Assessment)
Objective - 70% of students meet or exceed 70%

Results: **61.90% of students met or exceeded 70%**

Data Collection Semester: Spring 2019

Student Number	Actual Points	Possible Points	Percentage	70%
1			100.00%	1
2			75.00%	1
3			75.00%	1
4			75.00%	1
5			75.00%	1
6			75.00%	1
7			75.00%	1
8			75.00%	1
9			75.00%	1
10			75.00%	1
11			75.00%	1
12			75.00%	1
13			75.00%	1
14			50.00%	0
15			50.00%	0
16			50.00%	0
17			50.00%	0
18			50.00%	0
19			50.00%	0
20			50.00%	0
21			50.00%	0
				13
				61.90%

Bowling Green State University

SLO 2: Create oral presentations appropriate to the construction discipline

Graduating Student Exit Assessment (Indirect Assessment)
Objective - 70% of students meet or exceed 70%

Results: **52.38% of students met or exceeded 70%**

Data Collection Semester: Spring 2019

Student Number	Actual Points	Possible Points	Percentage	70%
1			100.00%	1
2			75.00%	1
3			75.00%	1
4			75.00%	1
5			75.00%	1
6			75.00%	1
7			75.00%	1
8			75.00%	1
9			75.00%	1
10			75.00%	1
11			75.00%	1
12			50.00%	0
13			50.00%	0
14			50.00%	0
15			50.00%	0
16			50.00%	0
17			50.00%	0
18			50.00%	0
19			50.00%	0
20			25.00%	0
21			25.00%	0
				11
				52.38%

Bowling Green State University

SLO 3: Create a construction project safety plan.

Graduating Student Exit Assessment (Indirect Assessment)
Objective - 70% of students meet or exceed 70%

Results: **71.43% of students met or exceeded 70%**

Data Collection Semester: Spring 2019

Student Number	Actual Points	Possible Points	Percentage	70%
1			100.00%	1
2			100.00%	1
3			100.00%	1
4			100.00%	1
5			100.00%	1
6			75.00%	1
7			75.00%	1
8			75.00%	1
9			75.00%	1
10			75.00%	1
11			75.00%	1
12			75.00%	1
13			75.00%	1
14			75.00%	1
15			75.00%	1
16			50.00%	0
17			50.00%	0
18			50.00%	0
19			50.00%	0
20			50.00%	0
21			25.00%	0
				15
				71.43%

Bowling Green State University

SLO 4: Create construction project cost estimates.

Graduating Student Exit Assessment (Indirect Assessment)
Objective - 70% of students meet or exceed 70%

Results: **71.43% of students met or exceeded 70%**

Data Collection Semester: Spring 2019

Student Number	Actual Points	Possible Points	Percentage	70%
1			100.00%	1
2			100.00%	1
3			100.00%	1
4			100.00%	1
5			75.00%	1
6			75.00%	1
7			75.00%	1
8			75.00%	1
9			75.00%	1
10			75.00%	1
11			75.00%	1
12			75.00%	1
13			75.00%	1
14			75.00%	1
15			75.00%	1
16			50.00%	0
17			50.00%	0
18			50.00%	0
19			50.00%	0
20			50.00%	0
21			25.00%	0
				15
				71.43%

Bowling Green State University

SLO 5: Create construction project schedules

Graduating Student Exit Assessment (Indirect Assessment)
Objective - 70% of students meet or exceed 70%

Results: **80.95% of students met or exceeded 70%**

Data Collection Semester: Spring 2019

Student Number	Actual Points	Possible Points	Percentage	70%
1			100.00%	1
2			100.00%	1
3			100.00%	1
4			100.00%	1
5			100.00%	1
6			75.00%	1
7			75.00%	1
8			75.00%	1
9			75.00%	1
10			75.00%	1
11			75.00%	1
12			75.00%	1
13			75.00%	1
14			75.00%	1
15			75.00%	1
16			75.00%	1
17			75.00%	1
18			50.00%	0
19			50.00%	0
20			50.00%	0
21			50.00%	0
				17
				80.95%

Bowling Green State University

SLO 6: Analyze professional decisions based on ethical principles.

Graduating Student Exit Assessment (Indirect Assessment)
Objective - 70% of students meet or exceed 70%

Results: **71.43% of students met or exceeded 70%**

Data Collection Semester: Spring 2019

Student Number	Actual Points	Possible Points	Percentage	70%
1			100.00%	1
2			100.00%	1
3			100.00%	1
4			100.00%	1
5			100.00%	1
6			100.00%	1
7			75.00%	1
8			75.00%	1
9			75.00%	1
10			75.00%	1
11			75.00%	1
12			75.00%	1
13			75.00%	1
14			75.00%	1
15			75.00%	1
16			50.00%	0
17			50.00%	0
18			50.00%	0
19			50.00%	0
20			50.00%	0
21			25.00%	0
				15
				71.43%

Bowling Green State University

SLO 7: Analyze construction documents for planning and management of construction processes.

Graduating Student Exit Assessment (Indirect Assessment)
Objective - 70% of students meet or exceed 70%

Results: **80.95% of students met or exceeded 70%**

Data Collection Semester: Spring 2019

Student Number	Actual Points	Possible Points	Percentage	70%
1			100.00%	1
2			100.00%	1
3			100.00%	1
4			75.00%	1
5			75.00%	1
6			75.00%	1
7			75.00%	1
8			75.00%	1
9			75.00%	1
10			75.00%	1
11			75.00%	1
12			75.00%	1
13			75.00%	1
14			75.00%	1
15			75.00%	1
16			75.00%	1
17			75.00%	1
18			50.00%	0
19			50.00%	0
20			50.00%	0
21			50.00%	0
				17
				80.95%

Bowling Green State University

SLO 8: Analyze methods, materials, and equipment used in construction processes.

Graduating Student Exit Assessment (Indirect Assessment)
Objective - 70% of students meet or exceed 70%

Results: **66.67% of students met or exceeded 70%**

Data Collection Semester: Spring 2019

Student Number	Actual Points	Possible Points	Percentage	70%
1			100.00%	1
2			100.00%	1
3			100.00%	1
4			100.00%	1
5			75.00%	1
6			75.00%	1
7			75.00%	1
8			75.00%	1
9			75.00%	1
10			75.00%	1
11			75.00%	1
12			75.00%	1
13			75.00%	1
14			75.00%	1
15			50.00%	0
16			50.00%	0
17			50.00%	0
18			50.00%	0
19			50.00%	0
20			50.00%	0
21			25.00%	0
				14
				66.67%

Bowling Green State University

SLO 9: Apply construction management skills as a member of a multidisciplinary team.

Graduating Student Exit Assessment (Indirect Assessment)
Objective - 70% of students meet or exceed 70%

Results: **66.67% of students met or exceeded 70%**

Data Collection Semester: Spring 2019

Student Number	Actual Points	Possible Points	Percentage	70%
1			100.00%	1
2			100.00%	1
3			100.00%	1
4			75.00%	1
5			75.00%	1
6			75.00%	1
7			75.00%	1
8			75.00%	1
9			75.00%	1
10			75.00%	1
11			75.00%	1
12			75.00%	1
13			75.00%	1
14			75.00%	1
15			50.00%	0
16			50.00%	0
17			50.00%	0
18			50.00%	0
19			50.00%	0
20			25.00%	0
21			25.00%	0
				14
				66.67%

Bowling Green State University

SLO 10: Apply electronic-based technology to manage the construction process

Graduating Student Exit Assessment (Indirect Assessment)
Objective - 70% of students meet or exceed 70%

Results: **76.19% of students met or exceeded 70%**

Data Collection Semester: Spring 2019

Student Number	Actual Points	Possible Points	Percentage	70%
1			100.00%	1
2			100.00%	1
3			100.00%	1
4			100.00%	1
5			100.00%	1
6			100.00%	1
7			75.00%	1
8			75.00%	1
9			75.00%	1
10			75.00%	1
11			75.00%	1
12			75.00%	1
13			75.00%	1
14			75.00%	1
15			75.00%	1
16			75.00%	1
17			50.00%	0
18			50.00%	0
19			50.00%	0
20			50.00%	0
21			25.00%	0
				16
				76.19%

Bowling Green State University

SLO 11: Apply basic surveying techniques for construction layout and control

Graduating Student Exit Assessment (Indirect Assessment)
Objective - 70% of students meet or exceed 70%

Results: **71.43% of students met or exceeded 70%**

Data Collection Semester: Spring 2019

Student Number	Actual Points	Possible Points	Percentage	70%
1			100.00%	1
2			100.00%	1
3			100.00%	1
4			100.00%	1
5			100.00%	1
6			100.00%	1
7			100.00%	1
8			100.00%	1
9			75.00%	1
10			75.00%	1
11			75.00%	1
12			75.00%	1
13			75.00%	1
14			75.00%	1
15			75.00%	1
16			50.00%	0
17			50.00%	0
18			50.00%	0
19			50.00%	0
20			50.00%	0
21			50.00%	0
				15
				71.43%

Bowling Green State University

SLO 12: Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process.

Graduating Student Exit Assessment (Indirect Assessment)
Objective - 70% of students meet or exceed 70%

Results: **57.14% of students met or exceeded 70%**

Data Collection Semester: Spring 2019

Student Number	Actual Points	Possible Points	Percentage	70%
1			100.00%	1
2			100.00%	1
3			100.00%	1
4			75.00%	1
5			75.00%	1
6			75.00%	1
7			75.00%	1
8			75.00%	1
9			75.00%	1
10			75.00%	1
11			75.00%	1
12			75.00%	1
13			50.00%	0
14			50.00%	0
15			50.00%	0
16			50.00%	0
17			50.00%	0
18			50.00%	0
19			50.00%	0
20			50.00%	0
21			50.00%	0
				12
				57.14%

Bowling Green State University

SLO 13: Understand construction risk management.

Graduating Student Exit Assessment (Indirect Assessment)
Objective - 70% of students meet or exceed 70%

Results: **47.62% of students met or exceeded 70%**

Data Collection Semester: Spring 2019

Student Number	Actual Points	Possible Points	Percentage	70%
1			100.00%	1
2			100.00%	1
3			75.00%	1
4			75.00%	1
5			75.00%	1
6			75.00%	1
7			75.00%	1
8			75.00%	1
9			75.00%	1
10			75.00%	1
11			50.00%	0
12			50.00%	0
13			50.00%	0
14			50.00%	0
15			50.00%	0
16			50.00%	0
17			50.00%	0
18			50.00%	0
19			50.00%	0
20			50.00%	0
21			50.00%	0
				10
				47.62%

Bowling Green State University

SLO 14: Understand construction accounting and cost control.

Graduating Student Exit Assessment (Indirect Assessment)
Objective - 70% of students meet or exceed 70%

Results: **28.57% of students met or exceeded 70%**

Data Collection Semester: Spring 2019

Student Number	Actual Points	Possible Points	Percentage	70%
1			75.00%	1
2			75.00%	1
3			75.00%	1
4			75.00%	1
5			75.00%	1
6			75.00%	1
7			50.00%	0
8			50.00%	0
9			50.00%	0
10			50.00%	0
11			50.00%	0
12			50.00%	0
13			50.00%	0
14			25.00%	0
15			25.00%	0
16			25.00%	0
17			25.00%	0
18			25.00%	0
19			25.00%	0
20			25.00%	0
21			25.00%	0
				6
				28.57%

Bowling Green State University

SLO 15: Understand construction quality assurance and control.

Graduating Student Exit Assessment (Indirect Assessment)
Objective - 70% of students meet or exceed 70%

Results: **42.86% of students met or exceeded 70%**

Data Collection Semester: Spring 2019

Student Number	Actual Points	Possible Points	Percentage	70%
1			100.00%	1
2			75.00%	1
3			75.00%	1
4			75.00%	1
5			75.00%	1
6			75.00%	1
7			75.00%	1
8			75.00%	1
9			75.00%	1
10			50.00%	0
11			50.00%	0
12			50.00%	0
13			50.00%	0
14			50.00%	0
15			50.00%	0
16			50.00%	0
17			50.00%	0
18			50.00%	0
19			50.00%	0
20			25.00%	0
21			25.00%	0
				9
				42.86%

Bowling Green State University

SLO 16: Understand construction project control processes.

Graduating Student Exit Assessment (Indirect Assessment)
Objective - 70% of students meet or exceed 70%

Results: **61.90% of students met or exceeded 70%**

Data Collection Semester: Spring 2019

Student Number	Actual Points	Possible Points	Percentage	70%
1			100.00%	1
2			75.00%	1
3			75.00%	1
4			75.00%	1
5			75.00%	1
6			75.00%	1
7			75.00%	1
8			75.00%	1
9			75.00%	1
10			75.00%	1
11			75.00%	1
12			75.00%	1
13			75.00%	1
14			50.00%	0
15			50.00%	0
16			50.00%	0
17			50.00%	0
18			50.00%	0
19			50.00%	0
20			50.00%	0
21			25.00%	0
				13
				61.90%

Bowling Green State University

SLO 17: Understand the legal implications of contract, common, and regulatory law to manage a construction project.

Graduating Student Exit Assessment (Indirect Assessment)
Objective - 70% of students meet or exceed 70%

Results: **33.33% of students met or exceeded 70%**

Data Collection Semester: Spring 2019

Student Number	Actual Points	Possible Points	Percentage	70%
1			100.00%	1
2			100.00%	1
3			75.00%	1
4			75.00%	1
5			75.00%	1
6			75.00%	1
7			75.00%	1
8			50.00%	0
9			50.00%	0
10			50.00%	0
11			50.00%	0
12			50.00%	0
13			50.00%	0
14			50.00%	0
15			50.00%	0
16			25.00%	0
17			25.00%	0
18			25.00%	0
19			25.00%	0
20			25.00%	0
21			25.00%	0
				7
				33.33%

Bowling Green State University

SLO 18: Understand the basic principles of sustainable construction

Graduating Student Exit Assessment (Indirect Assessment)
Objective - 70% of students meet or exceed 70%

Results: **52.38% of students met or exceeded 70%**

Data Collection Semester: Spring 2019

Student Number	Actual Points	Possible Points	Percentage	70%
1			100.00%	1
2			100.00%	1
3			75.00%	1
4			75.00%	1
5			75.00%	1
6			75.00%	1
7			75.00%	1
8			75.00%	1
9			75.00%	1
10			75.00%	1
11			75.00%	1
12			50.00%	0
13			50.00%	0
14			50.00%	0
15			50.00%	0
16			50.00%	0
17			50.00%	0
18			50.00%	0
19			50.00%	0
20			25.00%	0
21			25.00%	0
				11
				52.38%

Bowling Green State University

SLO 19: Understand the basic principles of structural behavior.

Graduating Student Exit Assessment (Indirect Assessment)
Objective - 70% of students meet or exceed 70%

Results: **80.95% of students met or exceeded 70%**

Data Collection Semester: Spring 2019

Student Number	Actual Points	Possible Points	Percentage	70%
1			100.00%	1
2			100.00%	1
3			100.00%	1
4			100.00%	1
5			100.00%	1
6			75.00%	1
7			75.00%	1
8			75.00%	1
9			75.00%	1
10			75.00%	1
11			75.00%	1
12			75.00%	1
13			75.00%	1
14			75.00%	1
15			75.00%	1
16			75.00%	1
17			75.00%	1
18			50.00%	0
19			50.00%	0
20			50.00%	0
21			50.00%	0
				17
				80.95%

Bowling Green State University

SLO 20: Understand the basic principles of mechanical, electrical and piping systems.

Graduating Student Exit Assessment (Indirect Assessment)
Objective - 70% of students meet or exceed 70%

Results: **42.86% of students met or exceeded 70%**

Data Collection Semester: Spring 2019

Student Number	Actual Points	Possible Points	Percentage	70%
1			100.00%	1
2			100.00%	1
3			100.00%	1
4			75.00%	1
5			75.00%	1
6			75.00%	1
7			75.00%	1
8			75.00%	1
9			75.00%	1
10			50.00%	0
11			50.00%	0
12			50.00%	0
13			50.00%	0
14			50.00%	0
15			50.00%	0
16			50.00%	0
17			50.00%	0
18			50.00%	0
19			25.00%	0
20			25.00%	0
21			25.00%	0
				9
				42.86%