

University of Tennessee
 Bachelor of Science in Construction Science and Management
 ACCE SLO Summary Report

SLO 1

Create Written Communication appropriate to the Construction Discipline

This SLO is assessed with one direct assessment (DA) measurement and one indirect assessment (IA) measurement as shown in the table below.

SLO 1	Create Written Communication Appropriate to the Construction Discipline			2023	2024	
Type	Course (DA) or Survey (IA)		Assessment Tool	Target	Fall	Spring
DA	CSM 486	Construction Capstone	A Construction Proposal	Students will earn 90% or higher	Not Assessed	90%
IA	Senior Student Exit Survey		Question on how students feel prepared for this SLO	80% of students thought they were prepared	Not Assessed	94%

Type	Follow Up	Revisions
DA	None	None
IA	None	None

Attachments:

1. Assessment tool
2. Grading rubric or grading criteria
3. One example of graded student work

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SLO 2

Create Oral Presentations Appropriate to the Construction Discipline

This SLO is assessed with one direct assessment (DA) measurement and one indirect assessment (IA) measurement as shown in the table below.

SLO 2	Create Oral Presentations Appropriate to the Construction Discipline			2023	2024	
Type	Course (DA) or Survey (IA)		Assessment Tool	Target	Fall	Spring
DA	CSM 486	Construction Capstone	Proposal Presentation	Students will earn 4 out of 5 or higher	Not Assessed	Class Average 3.63
IA	Senior Student Exit Survey		Question on how students feel prepared for this SLO	80% of students thought they were prepared	Not Assessed	100%

Type	Follow Up	Revisions
DA	None	None
IA	None	None

Attachments:

1. Assessment tool
2. Grading rubric or grading criteria
3. One example of graded student work

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SLO 3

Create a Construction Project Safety Plan

This SLO is assessed with one direct assessment (DA) measurement and one indirect assessment (IA) measurement as shown in the table below.

SLO 3	Create a Construction Project Safety Plan			2023	2024	
Type	Course (DA) or Survey (IA)		Assessment Tool	Target	Fall	Spring
DA	CSM 345	Construction Safety	Individual Project Safety Plan	Students will earn 70% or higher	84.18%	61.60%
IA	Senior Student Exit Survey		Question on how students feel prepared for this SLO	80% of students thought they were prepared	No Data Collected	100.00%

Type	Follow Up	Revisions
DA	None	None
IA	None	None

Attachments:

1. Assessment tool
2. Grading rubric or grading criteria
3. One example of graded student work

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SLO 4

Create Construction Project Cost Estimates

This SLO is assessed with one direct assessment (DA) measurement and one indirect assessment (IA) measurement as shown in the table below.

SLO 4	Create Construction Project Cost Estimates			2023	2024	
Type	Course (DA) or Survey (IA)		Assessment Tool	Target	Fall	Spring
DA	CSM 335	Construction Estimating I	Estimating the Cost of a Commercial Building	Students will earn 80% or higher	40%	Class not Offered
IA	Senior Student Exit Survey		Question on how students feel prepared for this SLO	80% of students thought they were prepared	##.##%	##.##%

Type	Follow Up	Revisions
DA	None	None
IA	None	None

Attachments:

1. Assessment tool
2. Grading rubric or grading criteria
3. One example of graded student work

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SLO 5

Create Construction Project Schedules

This SLO is assessed with one direct assessment (DA) measurement and one indirect assessment (IA) measurement as shown in the table below.

SLO 5	Create Construction Project Schedules			2023	2024	
Type	Course (DA) or Survey (IA)		Assessment Tool	Target	Fall	Spring
DA	CSM 355	Project Planning and Controls	Mid-term Project	Students will earn 70% or higher	100%	##.##%
IA	Senior Student Exit Survey		Question on how students feel prepared for this SLO	80% of students thought they were prepared	##.##%	89%

Type	Follow Up	Revisions
DA	None	None
IA	None	None

Attachments:

1. Assessment tool
2. Grading rubric or grading criteria
3. One example of graded student work

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SLO 6

Analyze Professional Decisions Based on Ethical Principles

This SLO is assessed with one direct assessment (DA) measurement and one indirect assessment (IA) measurement as shown in the table below.

SLO 6	Analyze Professional Decisions Based on Ethical Principles			2023	2024	
Type	Course (DA) or Survey (IA)		Assessment Tool	Target	Fall	Spring
DA	CSM 425	Construction Estimating II	Teammate Evaluations	80% of the Students will earn 5 points	Not Assessed	78% of Students earned 5 points
IA	Senior Student Exit Survey		Question on how students feel prepared for this SLO	80% of students thought they were prepared	##.##%	##.##%

Type	Follow Up	Revisions
DA	None	None
IA	None	None

Attachments:

1. Assessment tool
2. Grading rubric or grading criteria
3. One example of graded student work

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SLO 7

Analyze Methods, Materials, and Equipment used to Construct Projects

This SLO is assessed with one direct assessment (DA) measurement and one indirect assessment (IA) measurement as shown in the table below.

SLO 7	Analyze Methods, Materials, and Equipment used to Construct Projects			2023	2024	
Type	Course (DA) or Survey (IA)		Assessment Tool	Target	Fall	Spring
DA	CSM 425	Construction Estimating II	Midterm Exam	80% of Students will earn a score of 80 or higher		78% of Students earned a score of 80 or better
IA	Senior Student Exit Survey		Question on how students feel prepared for this SLO	80% of students thought they were prepared	##.##%	##.##%

Type	Follow Up	Revisions
DA	None	None
IA	None	None

Attachments:

1. Assessment tool and/or grading rubric.
2. One example of graded student work.

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SLO 8

Apply Electronic-Based Technology to Manage the Construction Process

This SLO is assessed with one direct assessment (DA) measurement and one indirect assessment (IA) measurement as shown in the table below.

SLO 8	Apply Electronic-Based Technology to Manage the Construction Process			2023	2024	
Type	Course (DA) or Survey (IA)		Assessment Tool	Target	Fall	Spring
DA	CSM 222	Construction CAD Applications	Midterm Exam	Students will earn 70% or higher	93.1%	92.9%
IA	Senior Student Exit Survey		Question on how students feel prepared for this SLO	80% of students thought they were prepared	##.##%	94%

Type	Follow Up	Revisions
DA	None	None
IA	None	None

Attachments:

1. Assessment tool
4. Grading rubric or grading criteria
5. One example of graded student work

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SLO 9

Apply Basic Surveying Techniques for Construction Layout and Control

This SLO is assessed with one direct assessment (DA) measurement and one indirect assessment (IA) measurement as shown in the table below.

SLO 9	Apply Basic Surveying Techniques for Construction Layout and Control			2023	2024	
Type	Course (DA) or Survey (IA)		Assessment Tool	Target	Fall	Spring
DA	CSM 224	Construction Surveying	Final Exam	Students will earn 80% or higher	61.29%	85.19%
IA	Senior Student Exit Survey		Question on how students feel prepared for this SLO	80% of students thought they were prepared	##.##%	100%

Type	Follow Up	Revisions
DA	None	None
IA	None	None

Attachments:

1. Assessment tool
2. Grading rubric or grading criteria
3. One example of graded student work

SLO 10

Understand Different Methods of Project Delivery and the Roles and Responsibilities of all Constituencies Involved in the Design and Construction Process

This SLO is assessed with one direct assessment (DA) measurement and one indirect assessment (IA) measurement as shown in the table below.

SLO 10	Understand Different Methods of Project Delivery and the Roles and Responsibilities of all Constituencies Involved in the Design and Construction Process			2023	2024	
Type	Course (DA) or Survey (IA)		Assessment Tool	Target	Fall	Spring
DA	CSM 125	Fundamentals of Building Systems	Problems 19-23 on First Exam	Students will earn 80% of students will answer these questions correctly	Not Accessed	83%
IA	Senior Student Exit Survey		Question on how students feel prepared for this SLO	80% of students thought they were prepared	##.##%	##.##%

Type	Follow Up	Revisions
DA	None	None
IA	None	None

Attachments:

1. Assessment tool
2. Grading rubric or grading criteria
3. One example of graded student work

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SLO 11

Understand Construction Accounting and Cost Controls

This SLO is assessed with one direct assessment (DA) measurement and one indirect assessment (IA) measurement as shown in the table below.

SLO 11	Understand Construction Accounting and Cost Controls			2023	2024	
Type	Course (DA) or Survey (IA)		Assessment Tool	Target	Fall	Spring
DA	CSM 435	Construction Finance & Law	Mid-term Exam	Students will earn 70% or higher	92%	##.##%
IA	Senior Student Exit Survey		Question on how students feel prepared for this SLO	80% of students thought they were prepared	##.##%	89%

Type	Follow Up	Revisions
DA	None	None
IA	None	None

Attachments:

1. Assessment tool
2. Grading rubric or grading criteria
3. One example of graded student work

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SLO 12

Understand Construction Quality Assurance and Control

This SLO is assessed with one direct assessment (DA) measurement and one indirect assessment (IA) measurement as shown in the table below.

SLO 12	Understand Construction Quality Assurance and Control			2023	2024	
Type	Course (DA) or Survey (IA)		Assessment Tool	Target	Fall	Spring
DA	CSM 270	Behaviour of Construction Materials	Lab Report #3	Students will earn 80% or higher	N/A	90.28%
IA	Senior Student Exit Survey		Question on how students feel prepared for this SLO	80% of students thought they were prepared	N/A	100%

Type	Follow Up	Revisions
DA	None	None
IA	None	None

Attachments:

1. Assessment tool
2. Grading rubric or grading criteria
3. One example of graded student work

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SLO 13

Understand Construction Project Control Process

This SLO is assessed with one direct assessment (DA) measurement and one indirect assessment (IA) measurement as shown in the table below.

SLO 13	Understand Construction Project Control Process			2023	2024	
Type	Course (DA) or Survey (IA)		Assessment Tool	Target	Fall	Spring
DA	CSM 355	Project Planning and Controls	Section 6 of Final Exam	Students will earn 70% or higher	100%	##.##%
IA	Senior Student Exit Survey		Question on how students feel prepared for this SLO	80% of students thought they were prepared	##.##%	100%

Type	Follow Up	Revisions
DA	None	None
IA	None	None

Attachments:

1. Assessment tool
2. Grading rubric or grading criteria
3. One example of graded student work

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SLO 14

**Understand the Legal Implications of Contracts, Common, and
 Regulatory Law to Manage a Construction Project**

This SLO is assessed with one direct assessment (DA) measurement and one indirect assessment (IA) measurement as shown in the table below.

SLO 14	Understand the Legal Implications of Contracts, Common, and Regulatory Law to Manage a Construction Project			2023	2024	
Type	Course (DA) or Survey (IA)		Assessment Tool	Target	Fall	Spring
DA	CSM 435	Construction Finance & Law	Final Exam	Students will earn 70% or higher	##.##%	80%
IA	Senior Student Exit Survey		Question on how students feel prepared for this SLO	80% of students thought they were prepared	##.##%	94%

Type	Follow Up	Revisions
DA	None	None
IA	None	None

Attachments:

1. Assessment tool
2. Grading rubric or grading criteria
3. One example of graded student work

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SLO 15

Understand the Basic Principles of Sustainable Construction

This SLO is assessed with one direct assessment (DA) measurement and one indirect assessment (IA) measurement as shown in the table below.

SLO 15	Understand the Basic Principles of Sustainable Construction			2023	2024	
Type	Course (DA) or Survey (IA)		Assessment Tool	Target	Fall	Spring
DA	CSM 430	Construction Field Operations and Sustainability	Final Exam	Students will earn 80% or higher	94.23%	N/A
IA	Senior Student Exit Survey		Question on how students feel prepared for this SLO	80% of students thought they were prepared	100%	N/A

Type	Follow Up	Revisions
DA	None	None
IA	None	None

Attachments:

1. Assessment tool
2. Grading rubric or grading criteria
3. One example of graded student work

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SLO 16

Understand the Basic Principles of Structural Behavior

This SLO is assessed with one direct assessment (DA) measurement and one indirect assessment (IA) measurement as shown in the table below.

SLO 16	Understand the Basic Principles of Structural Behavior			2023	2024	
Type	Course (DA) or Survey (IA)		Assessment Tool	Target	Fall	Spring
DA	CSM 215	Statics for Construction	Final Exam	Students will earn 70% or higher	64.17%	91.11%
IA	Senior Student Exit Survey		Question on how students feel prepared for this SLO	80% of students thought they were prepared	No Data Collected	100.00%

Type	Follow Up	Revisions
DA	None	None
IA	None	None

Attachments:

1. Assessment tool
2. Grading rubric or grading criteria
3. One example of graded student work

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SLO 17

Understand the Basic Principles of HVAC, Electrical, and Plumbing Systems

This SLO is assessed with one direct assessment (DA) measurement and one indirect assessment (IA) measurement as shown in the table below.

SLO 17	Understand the Basic Principles of HVAC, Electrical, and Plumbing Systems			2023	2024	
Type	Course (DA) or Survey (IA)		Assessment Tool	Target	Fall	Spring
DA	CSM 225	Mechanical & Electrical Systems	Final Exam	Students will earn 70% or higher	##.##%	100%
IA	Senior Student Exit Survey		Question on how students feel prepared for this SLO	80% of students thought they were prepared	##.##%	83%

Type	Follow Up	Revisions
DA	None	None
IA	None	None

Attachments:

1. Assessment tool
2. Grading rubric or grading criteria
3. One example of graded student work