

SLO Assessment Report

Course: BCN4944 – Construction Management Internship / BCN4709 - Construction Project Management Capstone

Instructors: Jaime Oliver / Andrew Barnes

Evaluation of Assessment Data:

Indirect Measure

The Indirect Measure for SLO #1 was assessed using the Graduating Senior Exit Survey. An 77.2% ranking was achieved for this SLO in Spring 2025. The target for the indirect measure is 70% (3.5 in the Likert scale raw score in between moderately and mostly proficient). Indirect measurement assessment met the target during terms as shown in the table below.

| Term | ACCE SLO | Raw Score (1-5) | Number | Percent |
|--------|---|-----------------|--------|---------|
| F 2023 | SLO #1 – create written communications appropriate to the construction discipline | 4.39 | 33 | 87.8% |
| S 2024 | | 4.13 | 45 | 82.6% |
| F 2024 | | 4.00 | 22 | 80% |
| S 2025 | | 3.86 | 29 | 77.2% |

Direct Measures

The Direct Measures for SLO #1 consists of several written assignments. We used the mentored project proposal as a direct measure in Spring 2025. The table below shows the average grade percentages with the Likert scale raw score for the direct assessments.

| Term | Number | Criteria | Average Percent (Likert Scale 1-5) | Target Percent |
|---------|--------|---------------------------|------------------------------------|----------------|
| S 2024 | 20 | Written Report #7 | 95% (4.75) | 70% |
| Su 2024 | 77 | Written Report #5 | 86.6% (4.33) | 70% |
| F 2024 | 11 | Written Report #8 | 92.6% (4.63) | 70% |
| S 2025 | 29 | Mentored Project Proposal | 92.4% (4.62) | 70% |

SLO Assessment Report

Course: BCN4709 – Construction Project Management Capstone

Instructors: Andrew Barnes

Evaluation of Assessment Data:

Indirect Measure

The Indirect Measure for SLO #1 was assessed using the Graduating Senior Exit Survey. An 83.4% ranking was achieved for this SLO in Spring 2025. The target for the indirect measure is 70% (3.5 on the Likert scale raw score between moderately and mostly proficient). Indirect measurement assessment met the target during terms as shown in the table below.

| Term | ACCE SLO | Raw Score (1-5) | Number | Percent |
|--------|---|-----------------|--------|---------|
| F 2023 | SLO #2 – Create oral presentations appropriate to the construction discipline | 4.24 | 33 | 84.8% |
| S 2024 | | 4.27 | 45 | 85.4% |
| F 2024 | | 4.05 | 22 | 81% |
| S 2025 | | 4.17 | 29 | 83.4% |

Direct Measures

The Direct Measures for SLO #2 consist of a series of individual presentations over the semester, including quality control and project management, safety, scheduling, and final project and presentation. The table below shows the average grade percentages with the Likert scale raw score for the direct assessments.

| Term | Number | Criteria | Average Percent (Likert Scale 1-5) | Target Percent |
|--------|--------|---------------|------------------------------------|----------------|
| F 2023 | 31 | Presentations | 76.6% (3.83) | 70% |
| S 2024 | 45 | Presentations | 94.2% (4.71) | 70% |
| F 2024 | 23 | Presentations | 93.2% (4.66) | 70% |
| S 2025 | 29 | Presentations | 81.2% (4.06) | 70% |

SLO Assessment Report

Course: BCN4730 – Construction Safety

Instructors: Tamara Baker

Evaluation of Assessment Data:

Indirect Measure

The Indirect Measure for SLO #3 was assessed using the Graduating Senior Exit Survey. A 71.8% ranking was achieved for this SLO in Spring 2025. The target for the indirect measure is 70% (3.5 on the Likert scale raw score between moderately and mostly proficient). We missed the target in Fall 2024 indirect measurement below 70%. Indirect measurement assessment met the target during other terms, as shown in the table below.

| Term | ACCE SLO | Raw Score (1-5) | Number | Percent |
|--------|--|-----------------|--------|---------|
| F 2023 | SLO #3 – Create a construction project safety plan | 4.00 | 33 | 87.8% |
| S 2024 | | 3.91 | 45 | 78.2% |
| F 2024 | | 3.45 | 22 | 69% |
| S 2025 | | 3.59 | 29 | 71.8% |

Direct Measures

The Direct Measures for SLO #3 consists of a written construction safety plan assignment. The table below shows the average grade percentages with the Likert scale raw score for the direct assessments.

| Term | Number | Criteria | Average Percent (Likert Scale 1-5) | Target Percent |
|--------|--------|---|------------------------------------|----------------|
| F 2024 | 18 | A Written Construction Safety Plan Assignment | 96.6% (4.83) | 70% |
| S 2025 | 41 | A Written Construction Safety Plan Assignment | 93.68% (4.68) | 70% |

The department decided that the overall average of the total grades should be at least 70%. All the Direct Measures met or were above the target.

SLO Assessment Report

Course: BCN4612 – Advanced Construction Estimating

Instructors: Aiyin Jiang

Evaluation of Assessment Data:

Indirect Measure

The Indirect Measure for SLO #4 was assessed using the Graduating Senior Exit Survey. A 78% ranking was achieved for this SLO in Spring 2025. The target for the indirect measure is 70% (3.5 on the Likert scale raw score between moderately and mostly proficient). We missed the target in Fall 2024 indirect measurement below 70%. Indirect measurement assessment met the target during other terms as shown in the table below.

| Term | ACCE SLO | Raw Score (1-5) | Number | Percent |
|--------|---|-----------------|--------|---------|
| F 2023 | SLO #4 – Create construction project cost estimates | 3.76 | 33 | 75.2% |
| S 2024 | | 3.71 | 45 | 74.2% |
| F 2024 | | 3.77 | 22 | 75.4% |
| S 2025 | | 3.9 | 29 | 78% |

Direct Measures

The Direct Measure for SLO #4 consists of multiple written cost estimate report assignments over the semester. Multiple divisions including earthwork, concrete, wood, and electric were included in the SLO #4. The table below shows the average grade percentages with the Likert scale raw score for the direct assessments. This report contains examples of the assignments. More examples are available on request.

| Term | Number | Criteria | Average Percent (Likert Scale 1-5) | Target Percent |
|--------|--------|-------------------------------|------------------------------------|----------------|
| S 2024 | 46 | Written cost estimate reports | 83% (4.15) | 70% |
| F 2024 | 18 | Written cost estimate reports | 87.8% (4.39) | 70% |
| S 2025 | 32 | Written cost estimate reports | 92.5% (4.62) | 70% |

The department decided that the overall average of the total grades should be at least 70%. All the Direct Measures met or were above the target.

SLO Assessment Report

Course: BCN4720C – Construction Project Planning and Scheduling

Instructors: Jonghoon Kim

Evaluation of Assessment Data:

Indirect Measure

The Indirect Measure for SLO #5 was assessed using the Graduating Senior Exit Survey. A 74.4% ranking was achieved for this SLO in Spring 2025. The target for the indirect measure is 70% (for example, 3.5 in the Likert scale raw score is between moderately and mostly proficient). Indirect measurement assessment met the target during terms, as shown in the table below.

| Term | ACCE SLO | Raw Score (1-5) | Number | Percent |
|--------|--|-----------------|--------|---------|
| F 2023 | SLO #5 – Create construction project schedules | 3.82 | 33 | 87.8% |
| S 2024 | | 3.64 | 45 | 72.8% |
| F 2024 | | 3.64 | 22 | 72.8% |
| S 2025 | | 3.72 | 29 | 74.4% |

Direct Measures

The Direct Measures for SLO #5 comprise a comprehensive final project report. The table below shows the average grade percentages with the Likert scale raw score for the direct assessments.

| Term | Number | Criteria | Average Percent (Likert Scale 1-5) | Target Percent |
|--------|--------|----------------|------------------------------------|----------------|
| F 2023 | 31 | A final report | 89% (4.45) | 70% |
| S 2024 | 35 | A final report | 90% (4.5) | 70% |
| F 2024 | 39 | A final report | 91% (4.55) | 70% |
| S 2025 | 29 | A final report | 78.4% (3.92) | 70% |

The department decided that the overall average of the total grades should be at least 70%. All the Direct Measures met the target.

SLO Assessment Report

Course: BCN4708 – Construction Documents and Contracts

Instructors: Edward Whelan

Evaluation of Assessment Data:

Indirect Measure

The Indirect Measure for SLO #6 was assessed using the Graduating Senior Exit Survey. A 86.8% ranking was achieved for this SLO in Spring 2025. The target for the indirect measure is 70% (3.5 on the Likert scale raw score between moderately and mostly proficient). Indirect measurement assessment met the target during the terms as shown in the table below.

| Term | ACCE SLO | Raw Score (1-5) | Number | Percent |
|--------|---|-----------------|--------|---------|
| F 2023 | SLO #6 – Analyze professional decisions based on ethical principles | 4.52 | 33 | 90.4% |
| S 2024 | | 4.58 | 45 | 91.6% |
| F 2024 | | 4.32 | 22 | 86.4% |
| S 2025 | | 4.34 | 29 | 86.8% |

Direct Measures

The Direct Measures for SLO #6 consist of short essay answer questions and multiple-choice questions in Quiz - ethic. The table below shows the average grade percentages with the Likert scale raw score for the direct assessments.

| Term | Number | Criteria | Average Percent (Likert Scale 1-5) | Target Percent |
|--------|--------|--------------|------------------------------------|----------------|
| S 2024 | 29 | Quiz - Ethic | 86.2% (4.31) | 70% |
| F 2024 | 38 | Quiz - Ethic | 87.6% (4.38) | 70% |
| S 2025 | 38 | Quiz - Ethic | 86% (4.3) | 70% |

The department decided that the overall average of the total grades should be at least 70%. All the Direct Measures met the target.

SLO Assessment Report

Course: BCN3224 – Construction Techniques

Instructors: Michele Lamarsh

Evaluation of Assessment Data:

Indirect Measure

The Indirect Measure for SLO #7 was assessed using the Graduating Senior Exit Survey. An 78.6% ranking was achieved for this SLO in Spring 2025. The target for the indirect measure is 70% (3.5 on the Likert scale raw score between moderately and mostly proficient). Indirect measurement assessment met the target during the terms as shown in the table below.

| Term | ACCE SLO | Raw Score (1-5) | Number | Percent |
|--------|--|-----------------|--------|---------|
| F 2023 | SLO #7 – Analyze methods, materials, and equipment used to construct projects. | 4.18 | 33 | 83.6% |
| S 2024 | | 4.18 | 45 | 83.6% |
| F 2024 | | 3.91 | 22 | 78.2% |
| S 2025 | | 3.93 | 29 | 78.6% |

Direct Measures

The Direct Measures for SLO #7 from a techniques analysis assignment from Spring 2025. The direct measures criteria was updated from exam questions to written assignment. The table below shows the average grade percentages with the Likert scale raw score for the direct assessments.

| Term | Number | Criteria | Average Percent (Likert Scale 1-5) | Target Percent |
|--------|--------|----------------------------------|------------------------------------|----------------|
| S 2024 | 66 | Exams | 92% (4.6) | 70% |
| F 2024 | 43 | Exams | 86% (4.3) | 70% |
| S 2025 | 45 | A techniques analysis assignment | 69.96% (3.5) | 70% |

The department decided that the overall average of the total grades should be at least 70%. All the Direct Measures met or were above the target.

SLO Assessment Report

Course: BCN3782 – Introduction to Construction Computing

Instructors: Ben Cashen

Evaluation of Assessment Data:

Indirect Measure

The Indirect Measure for SLO #8 was assessed using the Graduating Senior Exit Survey. A 78.6% ranking was achieved for this SLO in Spring 2025. The target for the indirect measure is 70% (3.5 in the Likert scale raw score between moderately and mostly proficient). Indirect measurement assessment met the target during the terms as shown in the table below.

| Term | ACCE SLO | Raw Score (1-5) | Number | Percent |
|--------|---|-----------------|--------|---------|
| F 2023 | SLO #8 – Apply electronic based technology to manage the construction process | 4.24 | 33 | 84.8% |
| S 2024 | | 4.11 | 45 | 82.2% |
| F 2024 | | 4.18 | 22 | 83.6% |
| S 2025 | | 3.93 | 29 | 78.6% |

Direct Measures

The Direct Measures for SLO #8 consists of three assignments to meet the SLO #8 requirements. The table below shows the average grade percentages with the Likert scale scores for the direct assessments.

| Term | Number | Criteria | Average Percent (Likert Scale 1-5) | Target Percent |
|--------|--------|---------------------|------------------------------------|----------------|
| S 2024 | 38 | Assignments Average | 92.3% (4.61) | 70% |
| F 2024 | 48 | Assignments Average | 91.8% (4.59) | 70% |
| S 2025 | 39 | Assignments Average | 93.54% (4.68) | 70% |

The department decided that the overall average of the total grades should be at least 70%. All the Direct Measures met or were above the target.

SLO Assessment Report

Course: BCN2280 – Surveying: Construction Layout

Instructors: Tamara Baker

Evaluation of Assessment Data:

Indirect Measure

The Indirect Measure for SLO #9 was assessed using the Graduating Senior Exit Survey. A 73.8% ranking was achieved for this SLO in Spring 2025. The target for the indirect measure is 70% (3.5 on the Likert scale raw score between moderately and mostly proficient). We missed the target in Fall 2024 indirect measurement below 70%. Indirect measurement assessment met the target during other terms as shown in the table below.

| Term | ACCE SLO | Raw Score (1-5) | Number | Percent |
|--------|---|-----------------|--------|---------|
| F 2023 | SLO #9 – Apply basic surveying techniques for construction layout and control | 3.88 | 33 | 77.6% |
| S 2024 | | 3.62 | 45 | 72.4% |
| F 2024 | | 3.45 | 22 | 69% |
| S 2025 | | 3.69 | 29 | 73.8% |

Direct Measures

The Direct Measures for SLO #9 consists of field surveying activity and lab report assignment. The table below shows the average grade percentages with the Likert scale raw score for the direct assessments.

| Term | Number | Criteria | Average Percent (Likert Scale 1-5) | Target Percent |
|--------|--------|----------------|------------------------------------|----------------|
| F 2023 | 32 | Lab report | 73.6% (3.68) | 70% |
| S 2024 | 40 | Lab report | 92.6% (4.63) | 70% |
| F 2024 | 40 | Lab report | 79.6% (3.98) | 70% |
| S 2025 | 37 | Lab Report | 72.4% (3.62) | 70% |
| | | Exam Questions | 83% (4.15) | 70% |

The department decided that the overall average of the total grades should be at least 70%. All the Direct Measures met or were above the target.

SLO Assessment Report

Course: BCN3611 – Construction Cost Estimating

Instructors: Aiyin Jiang

Evaluation of Assessment Data:

Indirect Measure

The Indirect Measure for SLO #10 was assessed using the Graduating Senior Exit Survey. An 78% ranking was achieved for this SLO in Spring 2025. The target for the indirect measure is 70% (3.5 on the Likert scale raw score between moderately and mostly proficient). Indirect measurement assessment met the target during the terms as shown in the table below.

| Term | ACCE SLO | Raw Score (1-5) | Number | Percent |
|--------|---|-----------------|--------|---------|
| F 2023 | SLO #10 – Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process | 4.33 | 33 | 86.6% |
| S 2024 | | 4.18 | 45 | 83.6% |
| F 2024 | | 3.91 | 22 | 78.2% |
| S 2025 | | 3.9 | 29 | 78% |

Direct Measures

The Direct Measures for SLO #10 consists of multiple quiz questions on the Canvas page. The table below shows the average grade percentages with the Likert scale raw score for the direct assessments.

| Term | Number | Criteria | Average Percent (Likert Scale 1-5) | Target Percent |
|--------|--------|----------|------------------------------------|----------------|
| F 2023 | 40 | Quiz | 98.4% (4.92) | 70% |
| S 2024 | 39 | Quiz | 98.4% (4.92) | 70% |
| F 2024 | 42 | Quiz | 82.4% (4.12) | 70% |
| S 2025 | 40 | Quiz | 90.6% (4.53) | 70% |

The department decided that the overall average of the total grades should be at least 70%. All of the Direct Measures met or were above the target.

SLO Assessment Report

Course: BCN4753 – Construction Finance and Cost Controls

Instructors: Michele Lamarsh

Evaluation of Assessment Data:

Indirect Measure

The Indirect Measure for SLO #11 was assessed using the Graduating Senior Exit Survey. A 66.8% ranking was achieved for this SLO in Spring 2025. The target for the indirect measure is 70% (3.5 on the Likert scale raw score between moderately and mostly proficient). Indirect measurement assessment met the target during the terms, as shown in the table below. We acknowledge that the course subject is challenging, especially the calculation components, and the assessment result is very close to the target. The instructor of this course continuously improves the teaching materials and skills to improve the indirect measure.

| Term | ACCE SLO | Raw Score (1-5) | Number | Percent |
|--------|---|-----------------|--------|---------|
| F 2023 | SLO #11 – Understand construction accounting and cost control | 3.52 | 33 | 70.4% |
| S 2024 | | 3.51 | 45 | 70.2% |
| F 2024 | | 3.5 | 22 | 70% |
| S 2025 | | 3.34 | 29 | 66.8% |

Direct Measures

The Direct Measures for SLO #11 consists of multiple questions in the exams. The exam covers a comprehensive understanding of construction accounting and cost control concepts and applications. The table below shows the average grade percentages with the Likert scale raw score for the direct assessments.

| Term | Number | Criteria | Average Percent (Likert Scale 1-5) | Target Percent |
|--------|--------|----------|------------------------------------|----------------|
| F 2023 | 73 | Exams | 83% (4.15) | 70% |
| F 2024 | 45 | Exams | 91% (4.55) | 70% |
| S 2025 | 25 | Exams | 88.5% (4.425) | 70% |

The department decided that the overall average of the total grades should be at least 70%. All the Direct Measures met or were above the target.

SLO Assessment Report

Course: BCN3223C – Soils and Foundations

Instructors: Dan Koo

Evaluation of Assessment Data:

Indirect Measure

The Indirect Measure for SLO #12 was assessed using the Graduating Senior Exit Survey. This SLO achieved an 77.2% ranking in Spring 2025. The target for the indirect measure is 70% (3.5 in the Likert scale raw score, which is between moderately and mostly proficient). The indirect measurement assessment met the target during the terms, as shown in the table below.

| Term | ACCE SLO | Raw Score (1-5) | Number | Percent |
|--------|---|-----------------|--------|---------|
| F 2023 | SLO #12 - Understand construction quality assurance and control | 4.3 | 33 | 86% |
| S 2024 | | 4.22 | 45 | 84.4% |
| F 2024 | | 3.91 | 22 | 78.2% |
| S 2025 | | 3.86 | 29 | 77.2% |

Direct Measures

The Direct Measures for SLO #12 consists of two assessment components, including quiz questions and a homework assignment. The table below shows the average grade percentages with the Likert scale raw score for the direct assessments.

| Term | Number | Criteria | Average Percent (Likert Scale 1-5) | Target Percent |
|--------|--------|-------------|------------------------------------|----------------|
| F 2023 | 65 | Quiz & Exam | 96.8% (4.84) | 70% |
| | | Homework | 56% (2.8) | 70% |
| S 2024 | 31 | Quiz & Exam | 83.8% (4.19) | 70% |
| | | Homework | 60% (3.0) | 70% |
| F 2024 | 35 | Quiz & Exam | 89% (4.45) | 70% |
| | | Homework | 61% (3.05) | 70% |
| S 2025 | 55 | Quiz | 88% (4.4) | 70% |
| | | Homework | 69% (3.45) | 70% |

The department decided that the overall average of the total grades should be at least 70%. The Indirect Measure was above the target, and the Direct Measure was below the target. The homework assignment grade is close to the 70% target and still needs improvement over the assessment period, as shown in the table.

SLO Assessment Report

Course: BCN4720C – Construction Project Planning and Scheduling

Instructors: Jonghoon Kim

Evaluation of Assessment Data:

Indirect Measure

The Indirect Measure for SLO #13 was assessed using the Graduating Senior Exit Survey. A 75.8% ranking was achieved for this SLO in Spring 2025. The target for the indirect measure is 70% (for example, 3.5 in the Likert scale raw score is between moderately and mostly proficient). Indirect measurement assessment met the target during terms, as shown in the table below.

| Term | ACCE SLO | Raw Score (1-5) | Number | Percent |
|--------|---|-----------------|--------|---------|
| F 2023 | SLO #13 – Understand construction project control processes | 4.18 | 33 | 83.6% |
| S 2024 | | 4.02 | 45 | 80.4% |
| F 2024 | | 3.59 | 22 | 71.8% |
| S 2025 | | 3.79 | 29 | 75.8% |

Direct Measures

The Direct Measures for SLO #13 comprise two components. The table below shows the average grade percentages with the Likert scale raw score for the direct assessments.

| Term | Number | Criteria | Average Percent (Likert Scale 1-5) | Target Percent |
|--------|--------|-------------------------|------------------------------------|----------------|
| F 2023 | 31 | HW #7 Updating Schedule | 82% (4.1) | 70% |
| | | Exam II | 86% (4.3) | 70% |
| S 2024 | 35 | HW #7 Updating Schedule | 79% (3.95) | 70% |
| | | Exam II | 78% (3.9) | 70% |
| F 2024 | 42 | HW #7 Updating Schedule | 82% (4.1) | 70% |
| | | Exam II | 77% (3.85) | 70% |
| S 2025 | 29 | HW #7 Updating Schedule | 83.6% (4.18) | 70% |

| | | | | |
|--|--|---------|------------|-----|
| | | Exam II | 77% (3.85) | 70% |
|--|--|---------|------------|-----|

The department decided that the overall average of the total grades should be at least 70%. All the Direct Measures met the target.

SLO Assessment Report

Course: BCN4708 – Construction Documents and Contracts

Instructors: Edward Whelan

Evaluation of Assessment Data:

Indirect Measure

The Indirect Measure for SLO #14 was assessed using the Graduating Senior Exit Survey. A 71.8% ranking was achieved for this SLO in Spring 2025. The target for the indirect measure is 70% (3.5 on the Likert scale raw score between moderately and mostly proficient). Indirect measurement assessment met the target during the terms as shown in the table below.

| Term | ACCE SLO | Raw Score (1-5) | Number | Percent |
|--------|--|-----------------|--------|---------|
| F 2023 | SLO #14 – Understand the legal implications of contract, common, and regulatory law to manage a construction project | 3.91 | 33 | 78.2% |
| S 2024 | | 3.76 | 45 | 75.2% |
| F 2024 | | 3.86 | 22 | 77.2% |
| S 2025 | | 3.59 | 29 | 71.8% |

Direct Measures

The Direct Measures for SLO #14 consists of midterm and final exams. The table below shows the average grade percentages with the Likert scale raw score for the direct assessments.

| Term | Number | Criteria | Average Percent (Likert Scale 1-5) | Target Percent |
|--------|--------|--|------------------------------------|----------------|
| S 2024 | 29 | Average Scores Midterm and Final Exams | 88.9% (4.45) | 70% |
| F 2024 | 38 | Average Scores Midterm and Final Exams | 95.2% (4.76) | 70% |
| S 2025 | 38 | Average Scores Midterm and Final Exams | 89% (4.45) | 70% |

The department decided that the overall average of the total grades should be at least 70%. All of the Direct Measures met or were above the target.

SLO Assessment Report

Course: BCN4587C – Green Construction and Sustainability

Instructors: Jonghoon Kim

Evaluation of Assessment Data:

Indirect Measure

The Indirect Measure for SLO #3 was assessed using the Graduating Senior Exit Survey. A 76.6% ranking was achieved for this SLO in Spring 2025. The target for the indirect measure is 70% (3.5 in the Likert scale raw score in between moderately and mostly proficient). Indirect measurement assessment met the target during the terms as shown in the table below.

| Term | ACCE SLO | Raw Score (1-5) | Number | Percent |
|--------|---|-----------------|--------|---------|
| F 2023 | SLO #15 – Create a construction project safety plan | 4.00 | 33 | 87.8% |
| S 2024 | | 3.91 | 45 | 78.2% |
| F 2024 | | 3.45 | 22 | 69% |
| S 2025 | | 3.83 | 29 | 76.6% |

Direct Measures

The Direct Measures for SLO #3 consists of two assessment components, including quiz & exam questions, and homework assignment. The table below shows the average grade percentages with the Likert scale raw score for the direct assessments.

| Term | Number | Criteria | Average Percent (Likert Scale 1-5) | Target Percent |
|---------|--------|------------|------------------------------------|----------------|
| Su 2023 | 31 | Final Exam | 92.4% (4.62) | 70% |
| Su 2024 | 30 | Final Exam | 87% (4.35) | 70% |

The department decided that the overall average of the total grades should be at least 70%. All of the Direct Measures met or were above the target.

SLO Assessment Report

Course: BCN4431 – Structural Systems

Instructors: Aiyin Jiang

Evaluation of Assessment Data:

Indirect Measure

The Indirect Measure for SLO #16 was assessed using the Graduating Senior Exit Survey. An 75.8% ranking was achieved for this SLO in Spring 2025. The target for the indirect measure is 70% (3.5 on the Likert scale raw score between moderately and mostly proficient). Indirect measurement assessment met the target during the terms, as shown in the table below.

| Term | ACCE SLO | Raw Score (1-5) | Number | Percent |
|--------|--|-----------------|--------|---------|
| F 2023 | SLO #16 – Understand the basic principles of structural behavior | 4.06 | 33 | 81.2% |
| S 2024 | | 3.93 | 45 | 78.6% |
| F 2024 | | 4.09 | 22 | 81.8% |
| S 2025 | | 3.79 | 29 | 75.8% |

Direct Measures

The Direct Measures for SLO #16 consists of exam questions. The table below shows the average grade percentages with the Likert scale raw score for the direct assessments.

| Term | Number | Criteria | Average Percent (Likert Scale 1-5) | Target Percent |
|--------|--------|----------|------------------------------------|----------------|
| F 2023 | 25 | Exam | 76.8% (3.84) | 70% |
| S 2024 | 37 | Exam | 83.8% (4.19) | 70% |
| F 2024 | 24 | Exam | 70.4% (3.52) | 70% |
| S 2025 | 37 | Exam | 85.4% (4.27) | 70% |

The department decided that the overall average of the total grades should be at least 70%. All the Direct Measures met or were above the target.

SLO Assessment Report

Course: BCN4591C – Mechanical and Electrical Systems

Instructors: Andrew Barnes & Navid Nickdoost

Evaluation of Assessment Data:

Indirect Measure

The Indirect Measure for SLO #17 was assessed using the Graduating Senior Exit Survey. An 84.8% ranking was achieved for this SLO in Spring 2025. The target for the indirect measure is 70% (3.5 on the Likert scale raw score between moderately and mostly proficient). Indirect measurement assessment met the target during the terms, as shown in the table below.

| Term | ACCE SLO | Raw Score (1-5) | Number | Percent |
|--------|--|-----------------|--------|---------|
| F 2023 | SLO #17 – Understand the basic principles of HVAC, electrical and plumbing systems | 4.42 | 33 | 88.4% |
| S 2024 | | 4.22 | 45 | 84.4% |
| F 2024 | | 4.23 | 22 | 84.6% |
| S 2025 | | 4.24 | 29 | 84.8% |

Direct Measures

The Direct Measures for SLO #17 consist of multiple quizzes and assignments. The table below shows the average grade percentages with the Likert scale raw score for the direct assessments.

| Term | Number | Criteria | Average Percent (Likert Scale 1-5) | Target Percent |
|--------|--------|-------------------------|------------------------------------|----------------|
| F 2023 | 80 | Quizzes | 74.2% (3.71) | 70% |
| S 2024 | 20 | Quizzes | 83% (4.15) | 70% |
| F 2024 | 50 | Quizzes | 70.6% (3.53) | 70% |
| S 2025 | 41 | Quizzes and Assignments | 81.4% (4.07) | 70% |

The department decided that the overall average of the total grades should be at least 70%. All the Direct Measures met or were above the target.