



# Statistical Report: CCSP and CDACBSP examinations Spring 2021 administration

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## Table of Contents

Executive Summary .....	1
Introduction.....	2
The CCSP and DACBSP .....	2
Spring 2021 Administration.....	2
Standard Setting & Equating .....	2
Psychometric Performance .....	4
Program Statistics.....	5
Summary .....	6
Appendix A: CCSP Program Reports .....	7
Appendix B: DACBSP Program Reports .....	18
Appendix C: Examinee Comments.....	24

## Executive Summary

This report provides a summary of the results for the spring 2021 administration of the two certifications offered by the American Chiropractic Board of Sports Physicians® (ACBSP): Certified Chiropractic Sports Physician® (CCSP) and Diplomate of the American Chiropractic Board of Sports Physicians® (DACBSP). A total of 82 candidates took the CCSP and 24 took the DACBSP. Items were flagged based on statistical considerations or candidates' comments, reviewed by experts, and some were rescored with credit to all examinees of determined flawed. The rescored results are presented in this report. Given the small sample sizes, the coefficient alpha reliability indices were acceptable for CCSP (0.756) and DACBSP (0.665) and the pass rates were in line with historical rates, providing validity evidence for the quality of the examinations.

## Introduction

### The CCSP and DACBSP

The American Chiropractic Board of Sports Physicians® (ACBSP) provides two certifications to the field: Certified Chiropractic Sports Physician® (CCSP) and Diplomate of the American Chiropractic Board of Sports Physicians® (DACBSP). ACBSP administers the CCSP and DACBSP exams twice each year. Both consist of 200 4-option multiple choice items in a linear format, in two sections. In addition, each contained several unscored items at the end to explore the use of high-resolution images.

### Spring 2021 Administration

The tests were delivered on May 1, 2021, with live remote proctoring using two video streams per candidate. After the tests were delivered, an initial psychometric analysis was performed. Items with very low difficulty (P-value) or discrimination (point-biserial) were flagged for review by content experts. Items with specific comments left by examinees were also flagged. Any items deemed to have issues by the experts were granted credit to examinees. Examinees were then rescored with the updated parameters.

## Standard Setting & Equating

The pass/fail standard for each form was set in the past with the modified-Angoff method. The average Angoff value for the items in a form was calculated, and when multiplied by the number of items, a raw cutscore was determined. In the interest of fairness to the candidates, one standard error of measurement (SEM) was then subtracted to arrive at the final standard.

The National Commission for Certifying Agencies (NCCA) recommends that cutscores be set with a standard-setting approach like Bookmark or modified-Angoff, but only periodically. For continuous usage, they recommend that a statistical equating procedure be employed. *Equating* means that the actual data be analyzed, comparing performance on overlapping and non-overlapping items.

Suppose you take Form A and get a score of 72/100 while your friend takes Form B and gets a score of 74/100. Is your friend smarter than you, or did his form happen to have easier questions? What if the passing score on the exam was 73? Well, if the test designers built-in some overlap of items between the forms, we can answer this question empirically.

Suppose the two forms overlap by 50 items, called anchor items or equator items. They are delivered to a large, representative sample. Here are the results.

Exam Form	Mean score on 50 overlap items	Mean score on 100 total items
A	30	72
B	32	74

Because the mean score on the anchor items was higher, we then think that the Form B group was a little smarter, which led to a higher total score.

Now suppose these are the results:

Exam Form	Mean score on 50 overlap items	Mean score on 100 total items
A	32	72
B	32	74

Now, we have evidence that the groups are of equal ability. The higher total score on Form B must then be because the unique items on that form are a bit easier.

The ACBSP exams utilize the approach described above, which is called a non-equivalent groups with anchor test (NEAT) design. There are several approaches that can be used to calculate the equating of the cutscore, but the approach utilized was Nominal Weights Equating (Babcock, Albano, & Raymond, 2012). This has been shown to work well with samples sized less than 100.

The cutscore for the Fall 2020 CCSP exam was 147.622. Converting this to the Spring 2021 scale with both Levine and Circle-Arc equating produces a cutscore of 141.711, rounded to 142.

The cutscore for the Fall 2020 DACBSP exam was 183.92 out of 250 items. Converting this to the Spring 2021 scale out of 200 items with both Levine and Circle-Arc equating procedures a cutscore of 137.119, rounded to 137.

## Psychometric Performance

The following table provides summary statistics across all three forms of each exam. Candidates performed very well, with high mean scores and pass rates, comparable to past administrations of these exams. The most important result in these tables is the coefficient alpha reliability index, which summarizes the consistency or repeatability of the measurement process onto a scale of 0 (random numbers) to 1 (perfect measurement). It was 0.756 for the CCSP and 0.665 for DACBSP, which is sufficiently reliable given the sample sizes.

Stats/Program	CCSP	DACBSP
<b>Examinees</b>	82	24
<b>Items</b>	200	200
<b>Mean</b>	157.46	149.37
<b>SD</b>	11.01	10.39
<b>Variance</b>	121.43	107.98
<b>Min</b>	131	125
<b>Max</b>	178	168
<b>Pass rate</b>	93.90%	91.66%
<b>Alpha</b>	0.756	0.665
<b>SEM</b>	5.440	6.019

The tables below provide summary statistics of examinee performance on the domains of each test.

CCSP Domain	Mean	Max	Items
/ C - 01A - Concepts of a Sports Physician (IA)	20.768	23	24
/ C - 01B - Exercise Physiology (IB)	12.207	16	17
/ C - 01C - Clinical Biomechanics (IC)	13.659	18	18
/ C - 01D - Sports Nutrition (ID)	11.232	14	14

/ C - 01E - Environment and the Athlete (IE)	7.707	10	10
/ C - 01F - Medical Legal Aspects (IF)	8.451	10	10
/ C - 02A - Clinical Competency (IIA)	47.866	58	61
/ C - 02B - Diagnostic Imaging (IIB)	10.207	14	14
/ C - 02C - CPR and Emergency Procedures (IIC)	9.256	11	11
/ C - 02D - Special Clinical Considerations (IID)	7.195	10	10
/ C - 02E - Adjunctive Therapy (IIE)	8.915	11	11

DACBSP Domain	Mean	Max	Items
/ D - 01 - Exercise Physiology	8.958	13	13
/ D - 02 - Rehab Concepts and Applications to Athletes (II)	14.625	18	18
/ D - 03 - Sport Specific Biomechanics (III)	12.5	16	16
/ D - 04 - Diagnostics in Sports Medicine (IV)	18.667	22	25
/ D - 05 - Adaptive and Functional Taping Bracing and Splinting (V)	7.292	10	10
/ D - 06 - Sport and Exercise Psychology (VI)	8.542	12	12
/ D - 07 - Sports Equipment and Technology (VII)	6.958	10	10
/ D - 08 - Advanced Principles of Joint Manipulation (VIII)	8.208	11	13
/ D - 09 - Evaluation and Management of Soft Tissue (IX)	17.167	21	22
/ D - 10 - Special Populations In Sport (X)	6.75	9	11
/ D - 11 - Emergency Procedures (XI)	14.167	18	18
/ D - 12 - Sports Medicine Research (XII)	8.458	10	10
/ D - 13 - Team Physician Concepts (XIII)	11.125	14	14
/ D - 14 - Anti-doping and Pharmacology in Sports Medicine (XIV)	5.958	8	8

## Program Statistics

To sit for the ACBSP exams, candidates must first complete extensive training at a university with a relevant training program. Candidates list this in their application process. The tables below provide student performance results for each program. Detailed reports, which can be provided to the schools are provided in Appendix A.

**Table 5: Program Statistics for CCSP**

Row Labels	N	P	F	Average Score
I have a valid and current ATC certification	2	2		163.00
Life University	3	2	1	153.33
Logan University	9	9		158.56
National University of Health Sciences	7	6	1	152.43
New York Chiropractic College	16	15	1	157.13
Northwestern Health Sciences University	3	3		150.33
Other College or University	4	3	1	154.25
Palmer College of Chiropractic	3	3		167.33
Southern California University of Health Sciences	4	4		158.00
University of Bridgeport	1	1		173.00
University of Western States	30	29	1	158.10
Grand Total	82	77	5	157.46

**Table 6: Program Statistics for DACBSP**

Row Labels	N	F	P	Average Score
National University of Health Sciences	2		2	144.50
Northwestern Health Sciences University	2		2	159.00
Other College or University	6	1	5	145.33
Southern California University of Health Sciences	12	1	11	150.58
University of Western States	2		2	149.50
Grand Total	24	2	22	149.38

## Summary

Spring 2021 was a successful administration of the CCSP and DACBSP examinations. Candidates scored well, and the test forms performed with quality psychometrics. The delivery process encountered no major issues; as seen by the comments in Appendix B, the vast majority of comments were positive or neutral, which means that no issues were encountered. Some candidates have suggestions which could be considered.



## Appendix A: CCSP Program Reports

### PERFORMANCE ON THE SPRING 2021 CCSP EXAM Program: I have a valid and current ATC certification

Listed below is the performance of students from this program, compared to the average performance for all programs. Also listed are the total numbers of items for each examination.

Domain	Average for This Program	Average for All Colleges	Number Possible
01A - Concepts of a Sports Physician (IA)	22.50	20.77	24
01B - Exercise Physiology (IB)	13.00	12.21	17
01C - Clinical Biomechanics (IC)	14.50	13.66	18
01D - Sports Nutrition (ID)	12.50	11.23	14
01E - Environment and the Athlete (IE)	7.00	7.71	10
01F - Medical Legal Aspects (IF)	9.00	8.45	10
02A - Clinical Competency (IIA)	47.00	47.87	61
02B - Diagnostic Imaging (IIB)	9.50	10.21	14
02C - CPR and Emergency Procedures (IIC)	10.50	9.26	11
02D - Special Clinical Considerations (IID)	8.50	7.20	10
02E - Adjunctive Therapy (IIE)	9.00	8.91	11



PERFORMANCE ON THE SPRING 2021 CCSP EXAM  
Program: Life University

Listed below is the performance of students from this program, compared to the average performance for all programs. Also listed are the total numbers of items for each examination.

<b>Domain</b>	<b>Average for This Program</b>	<b>Average for All Colleges</b>	<b>Number Possible</b>
01A - Concepts of a Sports Physician (IA)	21.67	20.77	24
01B - Exercise Physiology (IB)	13.33	12.21	17
01C - Clinical Biomechanics (IC)	12.00	13.66	18
01D - Sports Nutrition (ID)	11.67	11.23	14
01E - Environment and the Athlete (IE)	7.00	7.71	10
01F - Medical Legal Aspects (IF)	8.33	8.45	10
02A - Clinical Competency (IIA)	46.00	47.87	61
02B - Diagnostic Imaging (IIB)	10.00	10.21	14
02C - CPR and Emergency Procedures (IIC)	8.33	9.26	11
02D - Special Clinical Considerations (IID)	5.67	7.20	10
02E - Adjunctive Therapy (IIE)	9.33	8.91	11



PERFORMANCE ON THE SPRING 2021 CCSP EXAM  
Program: Logan University

Listed below is the performance of students from this program, compared to the average performance for all programs. Also listed are the total numbers of items for each examination.

<b>Domain</b>	<b>Average for This Program</b>	<b>Average for All Colleges</b>	<b>Number Possible</b>
01A - Concepts of a Sports Physician (IA)	21.44	20.77	24
01B - Exercise Physiology (IB)	12.78	12.21	17
01C - Clinical Biomechanics (IC)	14.67	13.66	18
01D - Sports Nutrition (ID)	11.56	11.23	14
01E - Environment and the Athlete (IE)	7.78	7.71	10
01F - Medical Legal Aspects (IF)	8.33	8.45	10
02A - Clinical Competency (IIA)	48.11	47.87	61
02B - Diagnostic Imaging (IIB)	9.33	10.21	14
02C - CPR and Emergency Procedures (IIC)	9.11	9.26	11
02D - Special Clinical Considerations (IID)	6.56	7.20	10
02E - Adjunctive Therapy (IIE)	8.89	8.91	11

PERFORMANCE ON THE SPRING 2021 CCSP EXAM  
Program: National University of Health Sciences

Listed below is the performance of students from this program, compared to the average performance for all programs. Also listed are the total numbers of items for each examination.

Domain	Average for This Program	Average for All Colleges	Number Possible
01A - Concepts of a Sports Physician (IA)	19.57	20.77	24
01B - Exercise Physiology (IB)	11.43	12.21	17
01C - Clinical Biomechanics (IC)	13.43	13.66	18
01D - Sports Nutrition (ID)	10.57	11.23	14
01E - Environment and the Athlete (IE)	7.14	7.71	10
01F - Medical Legal Aspects (IF)	8.57	8.45	10
02A - Clinical Competency (IIA)	47.00	47.87	61
02B - Diagnostic Imaging (IIB)	10.43	10.21	14
02C - CPR and Emergency Procedures (IIC)	9.57	9.26	11
02D - Special Clinical Considerations (IID)	6.29	7.20	10
02E - Adjunctive Therapy (IIE)	8.43	8.91	11

PERFORMANCE ON THE SPRING 2021 CCSP EXAM  
Program: New York Chiropractic College

Listed below is the performance of students from this program, compared to the average performance for all programs. Also listed are the total numbers of items for each examination.

Domain	Average for This Program	Average for All Colleges	Number Possible
01A - Concepts of a Sports Physician (IA)	20.44	20.77	24
01B - Exercise Physiology (IB)	12.31	12.21	17
01C - Clinical Biomechanics (IC)	14.00	13.66	18
01D - Sports Nutrition (ID)	11.31	11.23	14
01E - Environment and the Athlete (IE)	8.19	7.71	10
01F - Medical Legal Aspects (IF)	8.44	8.45	10
02A - Clinical Competency (IIA)	47.38	47.87	61
02B - Diagnostic Imaging (IIB)	9.50	10.21	14
02C - CPR and Emergency Procedures (IIC)	9.19	9.26	11
02D - Special Clinical Considerations (IID)	7.63	7.20	10
02E - Adjunctive Therapy (IIE)	8.75	8.91	11

PERFORMANCE ON THE SPRING 2021 CCSP EXAM  
Program: Northwestern Health Sciences University

Listed below is the performance of students from this program, compared to the average performance for all programs. Also listed are the total numbers of items for each examination.

Domain	Average for This Program	Average for All Colleges	Number Possible
01A - Concepts of a Sports Physician (IA)	18.00	20.77	24
01B - Exercise Physiology (IB)	13.33	12.21	17
01C - Clinical Biomechanics (IC)	12.67	13.66	18
01D - Sports Nutrition (ID)	10.33	11.23	14
01E - Environment and the Athlete (IE)	8.33	7.71	10
01F - Medical Legal Aspects (IF)	8.33	8.45	10
02A - Clinical Competency (IIA)	46.00	47.87	61
02B - Diagnostic Imaging (IIB)	8.67	10.21	14
02C - CPR and Emergency Procedures (IIC)	8.67	9.26	11
02D - Special Clinical Considerations (IID)	7.33	7.20	10
02E - Adjunctive Therapy (IIE)	8.67	8.91	11

PERFORMANCE ON THE SPRING 2021 CCSP EXAM  
Program: Other College or University

Listed below is the performance of students from this program, compared to the average performance for all programs. Also listed are the total numbers of items for each examination.

Domain	Average for This Program	Average for All Colleges	Number Possible
01A - Concepts of a Sports Physician (IA)	21.50	20.77	24
01B - Exercise Physiology (IB)	11.25	12.21	17
01C - Clinical Biomechanics (IC)	13.75	13.66	18
01D - Sports Nutrition (ID)	10.00	11.23	14
01E - Environment and the Athlete (IE)	6.75	7.71	10
01F - Medical Legal Aspects (IF)	8.75	8.45	10
02A - Clinical Competency (IIA)	47.00	47.87	61
02B - Diagnostic Imaging (IIB)	11.25	10.21	14
02C - CPR and Emergency Procedures (IIC)	9.25	9.26	11
02D - Special Clinical Considerations (IID)	6.75	7.20	10
02E - Adjunctive Therapy (IIE)	8.00	8.91	11



PERFORMANCE ON THE SPRING 2021 CCSP EXAM  
Program: Palmer College of Chiropractic

Listed below is the performance of students from this program, compared to the average performance for all programs. Also listed are the total numbers of items for each examination.

Domain	Average for This Program	Average for All Colleges	Number Possible
01A - Concepts of a Sports Physician (IA)	21.00	20.77	24
01B - Exercise Physiology (IB)	12.67	12.21	17
01C - Clinical Biomechanics (IC)	15.00	13.66	18
01D - Sports Nutrition (ID)	12.33	11.23	14
01E - Environment and the Athlete (IE)	7.67	7.71	10
01F - Medical Legal Aspects (IF)	9.00	8.45	10
02A - Clinical Competency (IIA)	51.00	47.87	61
02B - Diagnostic Imaging (IIB)	11.33	10.21	14
02C - CPR and Emergency Procedures (IIC)	10.67	9.26	11
02D - Special Clinical Considerations (IID)	7.67	7.20	10
02E - Adjunctive Therapy (IIE)	9.00	8.91	11





PERFORMANCE ON THE SPRING 2021 CCSP EXAM  
Program: Southern California University of Health Sciences

Listed below is the performance of students from this program, compared to the average performance for all programs. Also listed are the total numbers of items for each examination.

<b>Domain</b>	<b>Average for This Program</b>	<b>Average for All Colleges</b>	<b>Number Possible</b>
01A - Concepts of a Sports Physician (IA)	21.50	20.77	24
01B - Exercise Physiology (IB)	12.50	12.21	17
01C - Clinical Biomechanics (IC)	13.75	13.66	18
01D - Sports Nutrition (ID)	10.50	11.23	14
01E - Environment and the Athlete (IE)	6.50	7.71	10
01F - Medical Legal Aspects (IF)	8.50	8.45	10
02A - Clinical Competency (IIA)	49.50	47.87	61
02B - Diagnostic Imaging (IIB)	10.25	10.21	14
02C - CPR and Emergency Procedures (IIC)	9.00	9.26	11
02D - Special Clinical Considerations (IID)	7.00	7.20	10
02E - Adjunctive Therapy (IIE)	9.00	8.91	11



PERFORMANCE ON THE SPRING 2021 CCSP EXAM  
Program: University of Bridgeport

Listed below is the performance of students from this program, compared to the average performance for all programs. Also listed are the total numbers of items for each examination.

Domain	Average for This Program	Average for All Colleges	Number Possible
01A - Concepts of a Sports Physician (IA)	21.00	20.77	24
01B - Exercise Physiology (IB)	13.00	12.21	17
01C - Clinical Biomechanics (IC)	17.00	13.66	18
01D - Sports Nutrition (ID)	13.00	11.23	14
01E - Environment and the Athlete (IE)	9.00	7.71	10
01F - Medical Legal Aspects (IF)	7.00	8.45	10
02A - Clinical Competency (IIA)	55.00	47.87	61
02B - Diagnostic Imaging (IIB)	9.00	10.21	14
02C - CPR and Emergency Procedures (IIC)	11.00	9.26	11
02D - Special Clinical Considerations (IID)	9.00	7.20	10
02E - Adjunctive Therapy (IIE)	9.00	8.91	11



PERFORMANCE ON THE SPRING 2021 CCSP EXAM  
Program: University of Western States

Listed below is the performance of students from this program, compared to the average performance for all programs. Also listed are the total numbers of items for each examination.

Domain	Average for This Program	Average for All Colleges	Number Possible
01A - Concepts of a Sports Physician (IA)	20.87	20.77	24
01B - Exercise Physiology (IB)	11.90	12.21	17
01C - Clinical Biomechanics (IC)	13.17	13.66	18
01D - Sports Nutrition (ID)	11.30	11.23	14
01E - Environment and the Athlete (IE)	7.87	7.71	10
01F - Medical Legal Aspects (IF)	8.40	8.45	10
02A - Clinical Competency (IIA)	48.03	47.87	61
02B - Diagnostic Imaging (IIB)	10.80	10.21	14
02C - CPR and Emergency Procedures (IIC)	9.17	9.26	11
02D - Special Clinical Considerations (IID)	7.40	7.20	10
02E - Adjunctive Therapy (IIE)	9.20	8.91	11

## Appendix B: DACBSP Program Reports

### PERFORMANCE ON THE SPRING 2021 DACBSP EXAM Program: National University of Health Sciences

Listed below is the performance of students from this program, compared to the average performance for all programs. Also listed are the total numbers of items for each examination.

Domain	Average for This Program	Average for All Colleges	Number Possible
D - 01 - Exercise Physiology	8.00	8.96	13
D - 02 - Rehab Concepts and Applications to Athletes (II)	14.50	14.63	18
D - 03 - Sport Specific Biomechanics (III)	13.00	12.50	16
D - 04 - Diagnostics in Sports Medicine (IV)	19.00	18.67	25
D - 05 - Adaptive and Functional Taping Bracing and Splinting (V)	7.50	7.29	10
D - 06 - Sport and Exercise Psychology (VI)	6.50	8.54	12
D - 07 - Sports Equipment and Technology (VII)	8.00	6.96	10
D - 08 - Advanced Principles of Joint Manipulation (VIII)	7.00	8.21	13
D - 09 - Evaluation and Management of Soft Tissue (IX)	16.00	17.17	22
D - 10 - Special Populations In Sport (X)	7.50	6.75	11
D - 11 - Emergency Procedures (XI)	13.50	14.17	18
D - 12 - Sports Medicine Research (XII)	6.50	8.46	10
D - 13 - Team Physician Concepts (XIII)	11.50	11.13	14
D - 14 - Anti-doping and Pharmacology in Sports Medicine (XIV)	6.00	5.96	8

PERFORMANCE ON THE SPRING 2021 DACBSP EXAM  
Program: Northwestern Health Sciences University

Listed below is the performance of students from this program, compared to the average performance for all programs. Also listed are the total numbers of items for each examination.

Domain	Average for This Program	Average for All Colleges	Number Possible
D - 01 - Exercise Physiology	8.00	8.96	13
D - 02 - Rehab Concepts and Applications to Athletes (II)	16.50	14.63	18
D - 03 - Sport Specific Biomechanics (III)	15.00	12.50	16
D - 04 - Diagnostics in Sports Medicine (IV)	18.50	18.67	25
D - 05 - Adaptive and Functional Taping Bracing and Splinting (V)	6.00	7.29	10
D - 06 - Sport and Exercise Psychology (VI)	9.00	8.54	12
D - 07 - Sports Equipment and Technology (VII)	9.00	6.96	10
D - 08 - Advanced Principles of Joint Manipulation (VIII)	10.00	8.21	13
D - 09 - Evaluation and Management of Soft Tissue (IX)	17.50	17.17	22
D - 10 - Special Populations In Sport (X)	8.00	6.75	11
D - 11 - Emergency Procedures (XI)	15.00	14.17	18
D - 12 - Sports Medicine Research (XII)	8.50	8.46	10
D - 13 - Team Physician Concepts (XIII)	12.00	11.13	14
D - 14 - Anti-doping and Pharmacology in Sports Medicine (XIV)	6.00	5.96	8

PERFORMANCE ON THE SPRING 2021 DACBSP EXAM  
Program: Other College or University

Listed below is the performance of students from this program, compared to the average performance for all programs. Also listed are the total numbers of items for each examination.

Domain	Average for This Program	Average for All Colleges	Number Possible
D - 01 - Exercise Physiology	8.83	8.96	13
D - 02 - Rehab Concepts and Applications to Athletes (II)	13.17	14.63	18
D - 03 - Sport Specific Biomechanics (III)	12.00	12.50	16
D - 04 - Diagnostics in Sports Medicine (IV)	18.50	18.67	25
D - 05 - Adaptive and Functional Taping Bracing and Splinting (V)	7.33	7.29	10
D - 06 - Sport and Exercise Psychology (VI)	9.00	8.54	12
D - 07 - Sports Equipment and Technology (VII)	7.17	6.96	10
D - 08 - Advanced Principles of Joint Manipulation (VIII)	7.83	8.21	13
D - 09 - Evaluation and Management of Soft Tissue (IX)	17.67	17.17	22
D - 10 - Special Populations In Sport (X)	6.67	6.75	11
D - 11 - Emergency Procedures (XI)	14.17	14.17	18
D - 12 - Sports Medicine Research (XII)	7.67	8.46	10
D - 13 - Team Physician Concepts (XIII)	10.17	11.13	14
D - 14 - Anti-doping and Pharmacology in Sports Medicine (XIV)	5.17	5.96	8

PERFORMANCE ON THE SPRING 2021 DACBSP EXAM  
Program: Southern California University of Health Sciences

Listed below is the performance of students from this program, compared to the average performance for all programs. Also listed are the total numbers of items for each examination.

Domain	Average for This Program	Average for All Colleges	Number Possible
D - 01 - Exercise Physiology	8.92	8.96	13
D - 02 - Rehab Concepts and Applications to Athletes (II)	14.92	14.63	18
D - 03 - Sport Specific Biomechanics (III)	12.17	12.50	16
D - 04 - Diagnostics in Sports Medicine (IV)	19.08	18.67	25
D - 05 - Adaptive and Functional Taping Bracing and Splinting (V)	7.42	7.29	10
D - 06 - Sport and Exercise Psychology (VI)	8.75	8.54	12
D - 07 - Sports Equipment and Technology (VII)	6.50	6.96	10
D - 08 - Advanced Principles of Joint Manipulation (VIII)	8.25	8.21	13
D - 09 - Evaluation and Management of Soft Tissue (IX)	17.42	17.17	22
D - 10 - Special Populations In Sport (X)	6.42	6.75	11
D - 11 - Emergency Procedures (XI)	13.83	14.17	18
D - 12 - Sports Medicine Research (XII)	9.25	8.46	10
D - 13 - Team Physician Concepts (XIII)	11.42	11.13	14
D - 14 - Anti-doping and Pharmacology in Sports Medicine (XIV)	6.25	5.96	8

PERFORMANCE ON THE SPRING 2021 DACBSP EXAM  
Program: University of Western States

Listed below is the performance of students from this program, compared to the average performance for all programs. Also listed are the total numbers of items for each examination.

Domain	Average for This Program	Average for All Colleges	Number Possible
D - 01 - Exercise Physiology	11.00	8.96	13
D - 02 - Rehab Concepts and Applications to Athletes (II)	13.00	14.63	18
D - 03 - Sport Specific Biomechanics (III)	14.00	12.50	16
D - 04 - Diagnostics in Sports Medicine (IV)	18.00	18.67	25
D - 05 - Adaptive and Functional Taping Bracing and Splinting (V)	8.00	7.29	10
D - 06 - Sport and Exercise Psychology (VI)	8.00	8.54	12
D - 07 - Sports Equipment and Technology (VII)	5.00	6.96	10
D - 08 - Advanced Principles of Joint Manipulation (VIII)	10.00	8.21	13
D - 09 - Evaluation and Management of Soft Tissue (IX)	17.00	17.17	22
D - 10 - Special Populations In Sport (X)	8.00	6.75	11
D - 11 - Emergency Procedures (XI)	15.00	14.17	18
D - 12 - Sports Medicine Research (XII)	9.00	8.46	10
D - 13 - Team Physician Concepts (XIII)	12.00	11.13	14
D - 14 - Anti-doping and Pharmacology in Sports Medicine (XIV)	7.00	5.96	8



PERFORMANCE ON THE SPRING 2021 DACBSP EXAM  
Program: University of Western States

Listed below is the performance of students from this program, compared to the average performance for all programs. Also listed are the total numbers of items for each examination.

Domain	Average for This Program	Average for All Colleges	Number Possible
D - 01 - Exercise Physiology	11.50	8.96	13
D - 02 - Rehab Concepts and Applications to Athletes (II)	15.50	14.63	18
D - 03 - Sport Specific Biomechanics (III)	13.00	12.50	16
D - 04 - Diagnostics in Sports Medicine (IV)	16.50	18.67	25
D - 05 - Adaptive and Functional Taping Bracing and Splinting (V)	7.50	7.29	10
D - 06 - Sport and Exercise Psychology (VI)	7.50	8.54	12
D - 07 - Sports Equipment and Technology (VII)	6.00	6.96	10
D - 08 - Advanced Principles of Joint Manipulation (VIII)	8.50	8.21	13
D - 09 - Evaluation and Management of Soft Tissue (IX)	15.00	17.17	22
D - 10 - Special Populations In Sport (X)	7.00	6.75	11
D - 11 - Emergency Procedures (XI)	16.00	14.17	18
D - 12 - Sports Medicine Research (XII)	8.00	8.46	10
D - 13 - Team Physician Concepts (XIII)	11.00	11.13	14
D - 14 - Anti-doping and Pharmacology in Sports Medicine (XIV)	6.50	5.96	8

## Appendix C: Examinee Comments

The following tables provide a summary of examinee comments regarding the exam process; content-specific comments are pulled out and provided to the exam committee during the item review process, before releasing results.

### CCSP

Most of these questions were not taught in 100 hours of classes. There is a disconnect between the content taught in courses (which is valuable in practice) and what the test is over. Some of these terms were never mentioned in the classes, why are they being tested on?
I like the set up of the online test.
I enjoyed taking the test in the comfort of my own home.
very professional and organized
Thank you for the high number of clinically relevant questions.
The test is very fair thus far and there are a nice number of clinically significant questions as opposed to "jeopardy" knowledge.
This section was great, made me think things through to the best of my ability.
What a great test! Thanks for everything, CCSP crew!
It went well other than an issue with outside noise from the road (deliveries and weekend home repair projects).
Love it! Very helpful staff!
Test administration procedures were easy and very well explained. Rebecca was an awesome proctor.
The questions were beautifully written. Easy to understand and great scenarios painted in the head!
Charlee was excellent. Thank you, Charlee!
This was a first time experience with remote proctoring and, going through many personal challenges in my life and business, Cindy and Amanda were incredibly patient and helpful and I can't thank them enough.
All of the instructors were fantastic. I felt like they knew the material, they had a wealth of knowledge and experience to share, and I left feeling confident that I could practice as a qualified CCSP.
Please notify proctors that ear plugs are allowed
HAVING A REVIEW CLASS WOULD BE HELPFUL TO PREPARE FOR THE EXAM
Test procedures were covered during the practice examination. The practice examination was helpful and allowed me to know what to expect during the credentialing examination. First portion of the examination went smoothly. Thanks.
Had a lot of trouble with the testing program. Took 30 minutes to get the program to work.
I think that the at home CCSP exam was actually quite easy to do and is a good option for the future that helps people that have busy schedules and cannot travel. I also feel like it decreases test anxiety to have the exam in a familiar setting. I also appreciated the emails prior to the exam that detailed out how it was going to run and the practice test as well.
None, program works effectively when started

Had an issue with losing connection for about 10 minutes and had to restart PC. I am hardwired to internet.

## Diplomate

This was a very hard test. The test does not judge my ability to be a better sports chiropractor. this test was unfair compared to the test that was offered to my other classmates in the fall or in the past. previous tests, examined the doctors ability and judgment to know the sport injury and the treatment and etc. The questions of WADA and how to write an article safe sport has its own part and it should be tested in a different plat form. This test was not straight foward and it was meant to trick you rather than test your ability as a sports chiro. your cognintive abiltiy to be able to sit and take a test for over 4 hours these are the questions I thought were not good questions or vague.

108, 209, 112, 116, 117, 118, 119, 120, 124, 125, 127, 145, 146, 151, all questions related to how to write an article especially the one about clare johnson why would any one ask that question if i read her article or not?, 155, 156,159, 161, 173, 175, 176, 180, 187, 189, 190, 196, 197, 198, 199, 200, 201, 203.

Great process thank you

Very challenging. thank you

none at this time

Administration process was good.

Good job overall! I hope we can review what we missed in some way, shape, or form. It's nice to learn from these difficult tests rather than to just know if we passed/failed. Or, at least know a summary of question types/topics we missed.

I wish the test allowed us to cross out answers that we know are wrong and help with throught process.

The administration of the test went smoothly

Everything worked smoothly.

I would have liked more instruction on the break. Can I leave the room? I tried to get the attention of the proctor and could not.