Coaching and Performance Science, B.S.

Degree Offered

Bachelor of Science

Nature of the Program

This major prepares you to work with high-performance athletes in the athletic or tactical contexts, or with recreational participants in community or club leagues. As a profession, coaching has evolved well beyond merely teaching skills and strategy to athletes. Today, coaches need to evaluate and monitor athlete performance from the perspective of both a sport scientist and a sport pedagogist. The Coaching and Performance Science major is designed to prepare future coaches who will specialize in "on-field" coaching versus "off-field" coaching (e.g., strength and conditioning, athlete performance and recovery). Students will complete an area of emphasis in one of the following areas: Coaching and Leadership or Strength and Conditioning.

The Coaching and Leadership area focuses on the development of domain-specific and underlying scientific content knowledge as well as the essential interpersonal and intrapersonal skills necessary for quality teaching and leadership within the sport context. The program challenges students to focus on their personal and professional foundation and ongoing development through the integration of applied sport science and hands-on application in coaching.

The Strength and Conditioning area of emphasis concentrates on the science of training, designing training prescriptions, athlete monitoring and performance assessment, and better overall steering of the training/recovery process. Students participate in a variety of hands-on learning opportunities in an applied sport science laboratory and/or with WVU athletic teams.

Admissions for 2025-2026

All students are directly admitted into the Coaching and Performance Science program who meet the University requirements.

Students admitted from other majors within WVU must be in good academic standing (2.0 GPA).

Students transferring from another institution must be in good academic standing (2.0 GPA).

Major Code: 5510

Degree Requirements

Code	Title	Hours
University Requirements		65
Career and Professional Developm	nent Sequence	0
Coaching and Performance Science	e Major Requirements	55
Total Hours		120

University Requirements

Code	Title	Hours
General Education Foundations (GI	EF) 1, 2, 3, 4, 5, 6, 7, and 8 (31-37 Credits)	
Outstanding GEF Requirements 1,	2, 3, 5, 6, and 8	30
CAHS 191	First-Year Seminar	2
General Electives		33
Total Hours		65

Professional and Career Development Sequence

Code	Title	Hours
Course Sequence		
CAHS 191	First-Year Seminar	
CAHS 300	Career Exploration in Applied Human Sciences	
Select one of the following:		
ACE 475	Capstone Strength and Conditioning	

CAHS 489
Total Hours

Coaching and Performance Science Major Requirements

Capstone Experience in AHS

Code	Title	Hours
ACE 149	Introduction to Applied Anatomy	3
PET 175	Motor Development	2
ACE 215	Sport for the Exceptional Athlete (GEF 7)	3
PET 244	Motor Learning and Performance	2
ACE 256	Principles and Problems of Coaching	3
SEP 272	Introduction to Sport and Performance Psychology (GEF 4)	3
ACE 307	Applied Sport Physiology	3
CAHS 300	Career Exploration in Applied Human Sciences	3
ACE 310	Coaching Pedagogy	3
ACE 327	Applied Biomechanics	3
ACE 410	Training Theories for Coaches	3
ACE 430	Coaching Education Administration	3
ACE 469	Basic Strength and Conditioning for Coaches	3
ACE 488	Practicum Coaching Exceptional Athletes	3
Complete one of the following Areas of Emphasis (AoE)		15
Coaching & Leadership		
Strength and Conditioning		

Total Hours

Suggested Plan of Study

First Year			
Fall	Hours	Spring	Hours
ENGL 101 (GEF 1)		3 ACE 256	3
SEP 272 (GEF 4)		3 ACE 307	3
ACE 149		3 PET 244	2
PET 175		2 GEF 2	3
CAHS 191		2 GEF 3	3
General Elective		2 General Elective	1
		15	15
Second Year			
Fall	Hours	Spring	Hours
ACE 310		3 ACE 215 (GEF 7)	3
ACE 327		3 ACE 469	3
CAHS 300		3 Complete one of the following AoE courses:	3
GEF 2		3 SM 350	
General Elective		3 HN&F 200	
		General Electives	6
		15	15
Third Year			
Fall	Hours	Spring	Hours
Complete one of the following AoE courses:		3 ACE 488	3
ACE 265		Complete one of the following AoE courses:	3
ACE 473		ACE 457	
Complete one of the following AoE courses:		3 SEP 385	
ACE 487		General Electives	6
CDFS 410		GEF 5	3

55

0

	2	
	3	
	6	
	15	15
Hours	Spring	Hours
	3 ACE 410	3
	3 Complete one of the following AoE courses:	3
	3 ACE 475	
	6 CAHS 489	
	GEF 6	3
	GEF 8	3
	General Elective	3
	15	15
	Hours	Hours Spring 3 ACE 410 3 Complete one of the following AoE courses: 3 ACE 475 6 CAHS 489 GEF 6 GEF 8 General Elective

Total credit hours: 120

Areas of Emphasis Offered:

- Coaching and Leadership (p. 3)
- Strength and Conditioning (p. 3)

Coaching and Leadership Area of Emphasis

Code	Title	Hours
ACE 265	Diversity and Sport	3
SM 350	Leadership Theory and Application in Sport	3
SEP 385	Performance Psychology of Teams and Groups	3
CDFS 412	Adolescent Development	3
or CDFS 410	The Science of Positive Youth Development	
CAHS 489	Capstone Experience in AHS	3
Total Hours		15

Strength and Conditioning Area of Emphasis

Code	Title	Hours
HN&F 200	Nutrition/Activity/Health	3
ACE 457	Introduction to Sport Technology and Sport Science	3
ACE 473	Strength and Conditioning Coaching Techniques	3
ACE 487	Sport Specific Strength/Conditioning	3
ACE 475	Capstone Strength and Conditioning	3
Total Hours		15

Total Hours

Major Learning Outcomes COACHING AND PERFORMANCE SCIENCE

The goal of the program is for students to graduate with the essential skills and knowledge to work with athletes in a variety of contexts across their lifetime.

By the completion of the program, graduates:

- 1. will integrate disciplinary knowledge, skills, and dispositions and apply them to professional issues in coaching and performance science.
- 2. will reflect on their professional readiness and think critically about the continued refinement of the disciplinary knowledge, skills, and dispositions learned across the curriculum in coaching and performance science.
- 3. will model professional and ethical behaviors that are consistent with industry standards and the related recommendations for best practice learned across coaching and performance science.

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- 4. will demonstrate the ability to evaluate and integrate best practices for assessing athlete needs and designing, implementing, and evaluating practice plans.