

**Bachelor of Science in Exercise Science – Applied Exercise Physiology Concentration with Master of Science in Athletic Training
Curriculum Flow Chart**

Fall 1 Courses:	Credits
CHE 101/113 Chemistry I w/lab	5
PSY 101 – Psychology	3
UB Seminar	3
PUB 101	3
Pathway	3
Total Credits	17

Fall 2 Courses:	Credits
BIO 129 Lec and Lab	4
ES 207 – Human Form & Function	4
PHY 101 – Physics I	4
PHY 151 – Physics I lab	1
NTR 109 – Nutrition in Practice Lec	3
NTR 110 – Nutrition in Practice Lab	1
Total Credits	17

Fall 3 Courses:	Credits
ES 380 – Exercise Physiology	3
ES 442 – Intro to ES Lab Tech	1
ES 402 – Exercise Nutrition	2
ES 373 – Strength & Conditioning I	3
ES 300 – Theory of Athletic Injury	3
ES, NTR, or PUB Elective (from approved list)	3
Elective (from approved list)	3
Total Credits	18

Spring 1 Courses:	Credits
ES 200 – Intro to ES	3
STA 119 – Statistics	4
NTR 108 – Human Nutrition	3
ENG 105	4
Pathway/Diversity in the United States	3
Total Credits	17

Spring 2 Courses:	Credits
PGY 300 – Physiology	4
Pathway	3
Pathway	3
ENG 285 – Communication Literacy	3
ES, NTR, or PUB Elective (from approved list)	3
Total Credits	16

Spring 3 Courses (apply to MS in AT):	Credits
ES 310 – Practical App in ES	2
ES 381 – Exercise Physiology Lab	2
ES 370 – Biomechanics	4
Elective (from approved list)	3
UBC 399 – UB Capstone	1
ES 473 – Strength & Conditioning II	3

*credits count dually towards BS in ES and MS in AT

^online course through UBLearns

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ES 496 – Practicum (FOR BS DEGREE ONLY)	3
Total Credits	18

ES 630 – Clinical Research in Patient Care	3
ES 536 – Healthcare Management	2
ES 628 – Clinical Integration V	4
Total Credits	12

Summer I (Start of MS in AT):	Credits
ES 553 – Functional Anatomy for Athletic Trainers*	3
ES 508 – Foundations of Athletic Training*	3
ES 554 – Emergency Management in Athletic Training*	3
ES 547 – Foundations of Patient Care*	3
Total Credits	12

Fall I in MS in AT:	Credits
ES 548 – Patient Care Interventions I*	2
ES 543 – Psychosocial & Behavioral Healthcare	2
ES 528 – Health Promotion, Prevention & Wellness*	3
ES 570 – Patient Examination I	3
ES 520 – Clinical Integration I	2
Total Credits	12

Spring I in MS in AT:	Credits
ES 571 – Patient Examination II	3
ES 549 – Patient Care Interventions II	2
ES 606 – Limitations in Exercise Performance	3
ES 673 – Patient Examination III	3
ES 521 – Clinical Integration II	2
Total Credits	13

Summer II in MS in AT:	Credits
ES 626 – Clinical Integration III	2
ES 627 – Clinical Integration IV	1
ES 550 – Evidence-Based Practice	2
Total Credits	5

Fall II in MS in AT:	Credits
CHB 550 – Public Health Population Well-Being	3

Spring II in MS in AT:	Credits
ES 631 – Clinical Reasoning Capstone ^	3
ES 629 – Clinical Integration VI ^	6
Total Credits	9

**103 Credits for Undergrad (BS in ES)
63 Credits for MS in AT degree**

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