Catalog years

2022-present

Ipdated: 6/23/2022

WESTERN MICHIGAN UNIVERSITY

College of Education and Human Development

Exercise Science

<u>Clinical/Pre-Professional Concentration</u> 65-75 Hours <u>Human Performance Concentration</u> 60-70 Hours <u>Strength and Conditioning Concentration</u> 57-58 Hours

Wayne County Community College Transfer Guide

(No Minor Required; 122 Credit Hours Needed for Graduation)

WES	PRE- REQUISITES	COURSES	TRAN/SUB/GRADE	CR HR		
I. EXERCISE SCIENCE CORE COURSES REQUIRED FOR ALL THREE CONCENTRATIONS (Must be completed with a "C" Grade or better)						
		HPHE 1520 Foundations of Exercise Science		3		
	BIOS 1120 or 1600 or 1610	BIOS 2110 Human Anatomy	BIO 240	4		
	BIOS 2110	BIOS 2400 Human Physiology	BIO 250	4		
	BIOS 2110	HPHE 2950 Kinesiology		3		
	BIOS 2110; 2400	HPHE 2980 Into to Exercise Physiology		3		
	HPHE 2950 and 2980; or 1540	HPHE 3960 Principles of Strength & Conditioning		3		
	HPHE 2980 or 1540	HPHE 3970 Exercise & Sports Nutrition		3		
	HPHE 2950; 2980; 3150 or STAT 3660	**HPHE 4440 Prof Development in Exercise Science		3		
	HPHE 2950; 2980; 3960; 3970; HPHE 3150 or STAT 3660	*HPHE 4450 Exercise Testing & Prescription		3		
	HPHE 2950; 3960	HPHE 4950 Biomechanics		3		
Level II: Personal Wellness		HPHE 1110 OR HPHE 1701 Health & Personal Wellness (2 cr) AND PEGN course (1 cr)		2 or 3		
		*HPHE 1810 First Aid & CPR OR *HPHE 3810 Healthcare Provider CPR	EMT 101	2		

Total Credits (36-37)

II. CHOOSE EITHER THE CLINICAL/PRE-PROFESSIONAL, THE HUMAN PERFORMANCE, OR THE STRENGTH AND CONDITIONING CONCENTRATION

(All courses must be completed with a "C" or better)

- The Clinical/Pre-Professional Concentration is ideal for students looking to go into healthcare fields such as medicine, physical therapy, physician assistant, occupational therapy, athletic training, chiropractic, and cardiac rehabilitation.
- The Human Performance Concentration is ideal for students who wish to continue their education in exercise science areas such as exercise physiology, biomechanics, and motor control as well as conduct related research.
- The Strength & Conditioning Concentration is ideal for students interested in becoming fitness professionals such as strength and conditioning specialists and personal trainers.

CLINICAL/PRE-PROFESSIONAL CONCENTRATION SPECIFIC COURSES (PXCJ)					
		BIOS 1600 Biological Form & Function	BIO 101 or 125	3	
Level II: Scientific Lit. with lab	MATH 1110 w/ "C" or better placement	CHEM 1100/1110 General Chemistry & Lab	CHM 105 or 136	4	
Level II: Scientific Lit. with lab	MATH 1110 w/ "C" or better placement	PHYS 1130/1140 General Physics & Lab	PHY 115 or 235	5	
Level II: Science and Technology		PSY 1000 General Psychology	PSY 101	3	
Level II: Science and Technology (STAT 3660 only)	A 4 TOTA 1 1 0 0	HPHE 3150 Measurements/Evaluation/Stats OR STAT 3660 Data Analysis for Biosciences	MAT 131	3 or 4	
		HPHE 3500 Modification of Health Behavior		2	

	HPHE 2980	HPHE 5910 Clinical Exercise Physiology I		3
	HPHE 2980, 5910	HPHE 5915 Clinical Exercise Physiology II		3
		, , , , , , , , , , , , , , , , , , ,	Total Cred	lits (26-27
	STRENGTH & CONDI	ITIONING CONCENTRATION SPECIFIC COURSES (PXSJ)		(
		BIOS 1120 Principles of Biology	BIO 101 or 125	3
Level II: Scientific Lit. with lab	MATH 1100 w/ "C" or	PHYS 1070/1080 Elem Physics & Lab	PHY 115 or 235	5
Ecver II. Scientific Etc. With lab	better or placement HPHE 1520	HPHE 3150 Measurements/Evaluation/Stats		3
	HPHE 3960; can be	HPHE 4920 Athlete Testing and Evaluation		3
	HPHE 39/0 HPHE 3960; 4920	HPHE 4975 Tactical Training and Conditioning		3
	111 112 3700, 1720	THE 4770 fuerical framing and conditioning	Total C	Credits (17
	HUMAN PERFORM	IANCE CONCENTRATION SPECIFIC COURSES (PXHJ)		
		BIOS 1600 Biological Form & Function	BIO 101 or 125	3
Level II: Scientific Lit. with lab	MATH 1110 w/ "C" or	-	CHM 105 or 136	4
	better or placement MATH 1110 w/ "C" or	CHEM 1100/1110 General Chemistry & Lab	PHY 115 or 235	
Level II: Scientific Lit. with lab	better or placement	PHYS 1130/1140 General Physics & Lab	PHT 113 01 233	5
	HPHE 1520	HPHE 3150 Measurements/Evaluation/Stats		3
Level II: Personal Wellness		HPHE 3600 Sport and Performance Psychology		3
III. COMPLETE	HPHE 2980 CEITHER THE C	HPHE 4940 Advanced Exercise Physiology LINICAL/PRE-PROFESSIONAL CAPSTONE OR THE STRENGTH AND CONDITIONING	Total Cr THE HUMAN	edits (21)
	E EITHER THE C. NCE CASTONE, (All cou	LINICAL/PRE-PROFESSIONAL CAPSTONE OR THE STRENGTH AND CONDITIONING (arses must be completed with a "C" or better)	, THE HUMAN CAPSTONE	redits (21)
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Clinical/Pre-Prof	EEITHER THE C. NCE CASTONE, (All council content of the council counci	LINICAL/PRE-PROFESSIONAL CAPSTONE OR THE STRENGTH AND CONDITIONING or trees must be completed with a "C" or better) an Performance Capstone: Select One of the Through the Through the Complete of the Through the Capstone of the Capstone o	THE HUMAN CAPSTONE ree Options Belo	3-6 3-6 12
Clinical/Pre-Prof	EEITHER THE CONCE CASTONE, (All concessional and Human All Required HPHE Courses Junior or Senior Status Admittance to Exercise Science Accelerated Graduate Degree Program (AGDP)	LINICAL/PRE-PROFESSIONAL CAPSTONE OR THE STRENGTH AND CONDITIONING Irses must be completed with a "C" or better) An Performance Capstone: Select One of the Thi Option 1. HPHE 4980 Internship in Exercise Science Option 2. HPHE 5000 Studies in HPHE [Research in Exercise Science] Option 3. Choose four AGDP courses from list below: HPHE 6700 Exercise Metabolism HPHE 6710 Cardiovascular and Environmental Exercise Physiology HPHE 6730 Advanced Biomechanics HPHE 6740 Neuromuscular Control HPHE 6760 Exercise Science Seminar HPHE 6720 Laboratory in Exercise Physiology	THE HUMAN CAPSTONE ree Options Belo	3-6
Clinical/Pre-Prof	EEITHER THE Conce CASTONE, (All concessional and Human All Required HPHE Courses Junior or Senior Status Admittance to Exercise Science Accelerated Graduate Degree Program (AGDP)	LINICAL/PRE-PROFESSIONAL CAPSTONE OR THE STRENGTH AND CONDITIONING or trees must be completed with a "C" or better) an Performance Capstone: Select One of the Through the Through the Complete of the Through the Capstone of the Capstone o	THE HUMAN CAPSTONE ree Options Belo	3-6 3-6
Clinical/Pre-Prof	EEITHER THE CONCE CASTONE, (All councered and Human All Required HPHE Courses Junior or Senior Status Admittance to Exercise Science Accelerated Graduate Degree Program (AGDP) Strength and Cond HPHE 3960; can be taken concurrently with	LINICAL/PRE-PROFESSIONAL CAPSTONE OR THE STRENGTH AND CONDITIONING Insess must be completed with a "C" or better) An Performance Capstone: Select One of the Thre Option 1. HPHE 4980 Internship in Exercise Science Option 2. HPHE 5000 Studies in HPHE [Research in Exercise Science] Option 3. Choose four AGDP courses from list below: HPHE 6700 Exercise Metabolism HPHE 6710 Cardiovascular and Environmental Exercise Physiology HPHE 6730 Advanced Biomechanics HPHE 6740 Neuromuscular Control HPHE 6760 Exercise Science Seminar HPHE 6750 Laboratory in Exercise Physiology HPHE 6750 Laboratory Techniques in Biomechanics	Total Credi	3-6 3-6 12

Clinical/Pre-Professional Elective Suggestions

WES	PRE-REQUISITES	APPROVED COURSES	CR HR	Equivalent
	BIOS 1600	BIOS 1610 (1500) Molecular & Cellular Biology	4	BIO 155
	BIOS 1600	BIOS 1620 (1510) Ecology & Evolution	4	
	CHEM 1120; BIOS 1610 (1500) and BIOS 1620 (1510)	BIOS 2300 Cell Biology	3	
	CHEM 1120; BIOS 1610 (1500) and BIOS 1620 (1510)	BIOS 2500 Genetics	3	
	BIOS 2500; CHEM 3750 and CHEM 3760	BIOS 3120 Microbiology	5	

^{*}Take one semester before internship
**Take two semesters before internship

^{***}PHY 1610 is only 4 credits at OCC. It will transfer to WMU as 4 credits, not 5 credits

	56+ hrs; BIOS 2500, CHEM 3750/3760 or 3700/3710	BIOS 3500 Human Physiology for Majors	5	
	CHEM 1100/1110	CHEM 1120/1130 Gen Chem II	4	CHM 145
	CHEM 3700/3710 or 3770/3780	CHEM 3550/3560 Biochemistry	4	
	CHEM 1120/1130	CHEM 3700/3710 OR 3750/3760 Organic Chemistry	4	CHM 250
	CHEM 3750/3760	CHEM 3770/3780 Organic Chemistry II	4	CHM 252
Lev II: PW (PS)		FCS 2660 Personal Nutrition (on-line and on campus)	3	DT 130
		HOL 5360 Counseling Skills for Health Professions	3	
Level I: ODC		HSV 2250 Growth, Development, and Aging	3	OTA 114, PSY 200
Level II: ST		PHIL 3340 Biomedical Ethics		
	45+ hrs for NURS 3220 only	OR NUR 3220 Health Care Ethics	4/3	
	PHYS 1130/1140	PHYS 1150/1160 Gen Physics II	5	PHY 245
	PSY 1000	PSY 2500 Abnormal Psychology	3	
Level I: IE		SOC 2000 Principles of Sociology	3	SOC 100
	SOC 2000	SOC 3730 Sociology of Health & Illness	3	
Level II: ST	MATH 1100 w/"C" or better or placement	STAT 3660 Data Analysis for Biosciences (If not taken as part of concentration)	4	MAT 131

CLINICAL/PRE-PROFESSIONAL ELECTIVE SUGGESTIONS - https://wmich.edu/sites/default/files/attachments/u1635/2022/Clinical_Pre-Professional%20Elective%20Suggestions.pdf

PROGRAM GUIDE—MEET WITH A CEHD ADVISOR TO DECLARE MAJOR www.wmich.edu/education/advising