Catalog years ?022-present !pdated: 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 Strength and Conditioning Concentration 57-58 Hours

Muskegon 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	BIOL 105, BIOL 152L&L	4	
	BIOS 2110	BIOS 2400 Human Physiology	BIOL 106, BIOL 252L&L	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)	HE 106	2 or 3	
		*HPHE 1810 First Aid & CPR OR *HPHE 3810 Healthcare Provider CPR		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	BIOL 113 L&L (for BIOS 1120) BIOL 130 L&L (for BIOS 1610)	3	
Level II: Scientific Lit. with lab	MATH 1110 w/ "C" or better placement	CHEM 1100/1110 General Chemistry & Lab	CHEM 100 or 101 & 101A	4	
Level II: Scientific Lit. with lab	MATH 1110 w/ "C" or better placement	PHYS 1130/1140 General Physics & Lab	PHYS 201	5	
Level II: Science and Technology		PSY 1000 General Psychology	PSYC 201	3	

Level II: Science and Technology (STAT 3660 only)	HPHE 1520 (for HPHE 3150) MATH 1100 w/ "C" or better or placement (for STAT 3660)	HPHE 3150 Measurements/Evaluation/Stats OR sTAT 3660 Data Analysis for Biosciences		3 or 4
		HPHE 3500 Modification of Health Behavior		2
	НРНЕ 2980	HPHE 5910 Clinical Exercise Physiology I		3
	НРНЕ 2980, 5910	HPHE 5915 Clinical Exercise Physiology II		3
			Total Credits	(26-27
	STRENGTH & CONDIT	TIONING CONCENTRATION SPECIFIC COURSES (PXSJ)	
		BIOS 1120 Principles of Biology	BIOL 113 L&L (for BIOS 1120) BIOL 130 L&L (for BIOS 1610)	3
Level II: Scientific Lit. with lab	MATH 1100 w/ "C" or better or placement	PHYS 1070/1080 Elem Physics & Lab	PHYS 201	5
	HPHE 1520	HPHE 3150 Measurements/Evaluation/Stats		3
	HPHE 3960; can be taken concurrently with HPHE 3970	HPHE 4920 Athlete Testing and Evaluation		3
	НРНЕ 3960; 4920	HPHE 4975 Tactical Training and Conditioning		3
			Total Cred	lits (17
	HUMAN PERFORMA	ANCE CONCENTRATION SPECIFIC COURSES (PXHJ)		
		BIOS 1600 Biological Form & Function	BIOL 113 L&L (for BIOS 1120) BIOL 130 L&L (for BIOS 1610)	3
Level II: Scientific Lit. with lab	MATH 1110 w/ "C" or better or placement	CHEM 1100/1110 General Chemistry & Lab	CHEM 100 or 101 & 101A	4
Level II: Scientific Lit. with lab	MATH 1110 w/ "C" or better or placement	PHYS 1130/1140 General Physics & Lab	PHYS 201	5
	HPHE 1520	HPHE 3150 Measurements/Evaluation/Stats		3
Level II: Personal Wellness		HPHE 3600 Sport and Performance Psychology		3
	HPHE 2980	HPHE 4940 Advanced Exercise Physiology		3
PERFORMA	NCE CASTONE, C (All cour	INICAL/PRE-PROFESSIONAL CAPSTONE OR THE STRENGTH AND CONDITIONING rses must be completed with a "C" or better) n Performance Capstone: Select One of the Th	CAPSTONE	
	All Required HPHE Courses	Option 1. HPHE 4980 Internship in Exercise Science		3-6
	Junior or Senior Status	Option 2. HPHE 5000 Studies in HPHE [Research in Exercise Science]		3-6
	Admittance to Exercise Science Accelerated Graduate Degree Program (AGDP)	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 • HPHE 6750 Laboratory Techniques in Biomechanics		12
			Total Credits (1	18-24)
S	0	tioning Capstone: Complete Both Courses Belo)W	
		HPHE 4982 Strength and Conditioning Internship I		2
	4920 & 3970			
	4920 & 3970 HPHE 4982	HPHE 4983 Strength and Conditioning Internship II	Total Cred	2

Take one semester before internship **Take two semesters before internship

			CR	
WES	PRE-REQUISITES	APPROVED COURSES	HR	Equivalent
	BIOS 1600	BIOS 1610 (1500) Molecular & Cellular Biology	4	
	BIOS 1600	BIOS 1620 (1510) Ecology & Evolution	4	BIOL 104
	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	
	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	CHEM 102 & 102A
	CHEM 3700/3710 or 3770/3780	CHEM 3550/3560 Biochemistry	4	
	CHEM 1120/1130	CHEM 3700/3710 OR 3750/3760 Organic Chemistry	4	CHEM 201E & 201F
	CHEM 3750/3760	CHEM 3770/3780 Organic Chemistry II	4	CHEM 202F & 202G
Lev II: PW (PS)		FCS 2660 Personal Nutrition (on-line and on campus)	3	
		HOL 5360 Counseling Skills for Health Professions	3	
Level I: ODC		HSV 2250 Growth, Development, and Aging	3	
Level II: ST	45+ hrs for NURS 3220 only	PHIL 3340 Biomedical Ethics OR NUR 3220 Health Care Ethics	4/3	PHIL 204
	PHYS 1130/1140	PHYS 1150/1160 Gen Physics II	5	PHYS 202
	PSY 1000	PSY 2500 Abnormal Psychology	3	PSYC 203
Level I: IE		SOC 2000 Principles of Sociology	3	SOCY 101
	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	MATH 115

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

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