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**REQUIRED COGNATES: 13-15 HRS**

- **BIOS 1120** Principles of Biology
- **OR BIOS 1600** Biological Form and Function
- **OR BIOS 1610 (1500)** Molecular and Cellular Biology
- **BIOL 101** or equivalent

**Area V**

- **BIOS 1120 or 1600 or 1610 (1500)** w/"C" or better
- **BIOS 2110** Human Anatomy
- **BIOS 2400** Human Physiology

**Area VIII**

- **HOL 1000** Holistics Or **HPHE 1110** Healthy Living
- **PHED 103** or equivalent

**REQUIRE COACH THEORY/TECHNIQUES COURSES: 6 HOURS**

- **HPHE 2350** Theory of Coaching
- **PHED 111** or equivalent
- **HPHE 2350**
- **HPHE 3350** Advanced Theory of Coaching
- **Approved Application**
- **HPHE 4000** Field Exper/Internship HPHE

**REQUIRED PROFESSIONAL ACTIVITY COURSES: 17 HOURS**

- **HPHE 1610** Invasion Games (F)
- **HPHE 1620** Net/Wall Games (Sp)
- **HPHE 1630** Target/Striking/Fielding Games (F)
- **HPHE 1640** Skills & Instruction of Early Elem. & Rhythmic Movements (Sp)
- **Take One**
- **HPHE 1650** Fitness Activities (F)
- **HPHE 2480** Aquatics (Sp)
- **PEGN 3500** Lifeguard Training

**REQUIRED PEDAGOGICAL SEQUENCE for certification in Michigan: 17 HRS**

- **2.5 Overall required in pedagogical sequence**
- **BIOS 1120**
- **HPHE 2400** Motor Development/Learning
- **HPHE 2430** PE Methods: Early Elem (Sp)
- **HPHE 1500**
- **HPHE 3460** PE & HE Methods: Special Pops (F)
- **HPHE 4470** PE & HE Methods: Elementary Methods (Sp)
- **HPHE 4480** PE & HE Methods: Secondary Methods (F)
- **LS 3050** K-12 Content Literacy
- **Prof 2**
- **ES 3950** School and Society
- **HPHE 4100** HPHE Intern TE Seminar
- **HPHE 4750** HPHE Intern Teaching

*Must receive grade “C” or better*