

PRE-FISHERIES AND WILDLIFE MANAGEMENT

ASSOCIATE IN SCIENCE (AS) DEGREE PRE-FISHERIES & WILDLIFE MGT CONCENTRATION

For students considering a major in FISHERIES & WILDLIFE MANAGEMENT upon transferring to a four-year institution, the Associate of Science degree with a concentration in PRE-FISHERIES & WILDLIFE MANAGEMENT offers a strong foundation, providing essential courses that serve as building blocks for advanced study.

A concentration in PRE-FISHERIES & WILDLIFE MANAGEMENT can lead to diverse career opportunities, including conservation, ecology, resource management, environmental policy, wildlife biology, fisheries management, park rangers, and environmental science.

Program Objectives

Upon graduating from ACC with an Associate of Science degree with a concentration in PRE-FISHERIES & WILDLIFE MANAGEMENT, students will:

1. **Demonstrate** a foundational understanding of ecology, conservation, and wildlife management to support the protection and sustainability of natural resources.
2. **Apply** field research, data analysis, and technical skills for assessing and managing fish and wildlife populations.
3. **Apply** scientific principles and communication skills to address environmental challenges and prepare for further academic study or conservation and resource management careers.

It is strongly recommended that students consult with an ACC Academic Advisor in PRE-FISHERIES & WILDLIFE MANAGEMENT to ensure they meet specific program requirements, objectives, and transfer goals.

PROGRAM REQUIREMENTS (PR)

BIO 161	GENERAL COLLEGE BIOLOGY I (4/5)
BIO 162	GENERAL COLLEGE BIOLOGY II (4/5)
BIO 207	WILDLIFE & FISHERIES ECOLOGY & MGT (3/3)
CEM 111 or	GENERAL CHEMISTRY (4/7) OR
CEM 121	GENERAL & INORGANIC CHEMISTRY (4/7)
CEM-112 or	ORGANIC & BIOLOGICAL CHEMISTRY (4/7)
CEM 122	INORGANIC CHEM & QUAL. ANALYSIS (4/7)
MTH 121 or	COLLEGE ALGEBRA (4/4)
MTH 123	COLLEGE ALGEBRA & ANALYTICAL TRIG (4/4)
MTH 223	STATISTICAL METHODS (4/4)
PHY 121	GENERAL COLLEGE PHYSICS (4/6)

GENERAL EDUCATION

DEGREE DISTRIBUTION REQUIREMENTS

GROUP 1 (G1) – ENGLISH COMPOSITION

Six (6) semester credits are required, including ENG 111 or 121 and 112, 122 or 123

GROUP 2 (G2) – SCIENCES/MATHEMATICS

Twenty (20) semester credits are required, including at least one laboratory science course. Courses will be taken in more than one academic discipline (course abbreviation/prefix). Note: Two (2) courses in Natural Sciences, including one with laboratory experience (from two disciplines), in addition to MTH 118 or MTH 121 or higher, are required to achieve the Michigan Transfer Agreement (MTA).

GROUP 3 (G3) – SOCIAL SCIENCES & HUMANITIES/FINE ARTS

Ten (10) semester credits are required in combination from both of these groups, with a minimum of three (3) credits from each group. Political Science or U.S. History courses used to satisfy the American Government requirement can be included. Courses will be taken in more than one academic discipline (course abbreviation/prefix). Note: Two (2) courses in Social Sciences (from two disciplines) and two (2) courses in Humanities and Fine Arts (from two disciplines and excluding studio and performance classes) are required for the Michigan Transfer Agreement (MTA).

ELECTIVE CREDITS (EC)

The remainder of credits for an AS degree with this concentration should be oriented toward additional courses in PRE-FISHERIES & WILDLIFE MANAGEMENT with prefixes **BIO, CEM, MTH, and PHY** when available in consultation with an ACC Academic Advisor in PRE-FISHERIES & WILDLIFE MANAGEMENT.

RECOMMENDED COURSES - SEQUENCE

GROUP 1-4 REQUIREMENTS + ELECTIVE CREDITS

Meets ACC degree distribution and MTA requirements

63 CREDITS - 81 CONTACT HOURS

YEAR 1 FALL	14 CREDITS
G1	ENG 111 ENGLISH COMPOSITION I (3/3)
G2 PR	CEM 111 GENERAL CHEMISTRY (4/7) OR CEM 121 GENERAL & INORGANIC CHEMISTRY (4/7)
G2 PR	BIO 161 GENERAL COLLEGE BIOLOGY I (4/5)
G2	BIO 129 FIELD BIOLOGY (3/4)

YEAR 1 SPRING	17 CREDITS
G1	ENG 112 ENGLISH COMPOSITION II (3/3)
G2 PR	CEM-112 ORGANIC & BIOLOGICAL CHEMISTRY (4/7) OR CEM 122 INORG CHEM & QUAL ANALYSIS (4/7)
G2 PR	BIO 162 GENERAL COLLEGE BIOLOGY II (4/5)
G2 PR	BIO 207 WILDLIFE & FISHERIES ECOL & MGT (3/3)
G3	HUM/FA HUMANITIES/FINE ARTS (3/3)

YEAR 2 FALL	15 CREDITS
G2 PR	MTH 121 COLLEGE ALGEBRA (4/4)
G2 PR	PHY 121 GENERAL COLLEGE PHYSICS (4/6)
G3	SOC SCI SOCIAL SCIENCE (3/3)
G3	SCI SCIENCE ELECTIVE (4/7)

YEAR 2 SPRING	17 CREDITS
G2 PR	MTH 223 STATISTICAL METHODS (4/4)
G2	GEO 151 ELECTIVE – INTRODUCTION TO GIS (1.5/2)
G2	GEO 152 ELECTIVE – ADVANCED GIS (1.5/2)
G3	PLS 221 AMERICAN GOVERNMENT & POLITICS (3/3)
G3	HUM/FA HUMANITIES/FINE ARTS (3/3)
G2	SCI SCIENCE ELECTIVE (4/7)