



# ADDENDUM TO THE 2018-2019 CATALOG

EFFECTIVE DECEMBER 3, 2018



UNDERGRAD | GRADUATE | ONLINE

**WILLIAM JESSUP UNIVERSITY**

**2018-2019 CATALOG ADDENDUM**

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\*\*Addendum contains corrected Environmental Science course numbers and concentrations, and Master of Arts in Leadership program descriptions.

## Bachelor of Science Biology

### Marine Biology Concentration (35 units)

The Marine Biology concentration is designed to introduce students to marine ecosystems, including the great diversity of marine organisms and their coastal and oceanic environments. The emphasis is on basic principles that help us understand the processes that shape life in marine environments. Through diverse academic courses, hands-on learning experiences in the classroom and in the field, and transformative internships and travel studies, students will be well prepared for future graduate study or careers in research or education.

Earth and Environmental Science with Lab (ESCI131/L)	4
Aquatic and Marine Ecology with lab General Ecology with Lab (ESCI313/ESCI313L) <u>or</u>	
General Ecology with Lab (ESCI210/210L*)	4
Marine Biology with Lab (BIOL106/106L)	4
Ichthyology: the Study of Fishes with Lab (BIOL356/356L)	4
Biological Oceanography (BIOL 3XX)	3
Field Methods in Coastal and Marine Biology with Lab (BIOL4XX/4XXL)	4
Marine Science Internship	2
Upper division Biology or Environmental Science electives	10

Recommended:

SCUBA Diving: Physiology, Methods and Environment (3)

Marine Science Internship (additional 2-4 units)

\*General Ecology was changed from a 300 to 200 level course effective FA-18. An earlier version of the catalog incorrectly cited 300 level.

*Students must complete a minimum of 36 units of upper division coursework in order to graduate. To meet this requirement, some or all of the nine units of free electives taken for this concentration may need to be at the upper division level.*

## Bachelor of Arts and Bachelor of Science Environmental Science

### Bachelor of Arts

The Bachelor of Arts in Environmental Science is designed for greater flexibility, particularly for those students wanting to accommodate an approved environmental study abroad program. Furthermore, it allows students to explore greater breadth and diversity in their academic experiences, interests, and scientific training.

### Degree Requirements

Foundational Studies	65 units
Environmental Science major	45 units
General education free electives	18 units
<b>Degree Total</b>	<b>128 units</b>

Transfer students may refer to “General Education and Bible Options for Transfer Students” for optional requirements under Foundational Studies.

### Environmental Science Major

The following courses are part of the requirement for this major and are recommended to fulfill general education requirements.

General Biology with Lab (BIOL100/BIOL100L)	4 (GE: Physical and Biological Sciences)
Origins (BIOL176)	3 (GE: Biblical Studies)
Earth and Environmental Science with Lab (ESCI131/ESCI131L)	4 (GE: Physical and Biological Sciences)
Precalculus (MATH102)	4 (GE: Mathematics and Quantitative Reasoning)

#### Core Courses

General Ecology with Lab (ESCI210/ESCI210L)	4
Environmental Chemistry with Lab (ESCI320/ESCI320L)	4
Introduction to Geographic Information Systems with Lab (ESCI340/ESCI340L)	4
Environmental Ethics (ESCI350) <u>or</u> American Environmental Literature (ESCI361)	3
Environmental Law and Policy (ESCI360) <u>or</u> American Environmental History and Policy (ESCI362)	3
Senior Colloquium: Thesis/Project (ESCI498)	2
Introduction to Chemistry with Lab (CHEM105/CHEM105L) <u>or</u> General Chemistry I with Lab (CHEM110/CHEM110L)	5
Introduction to Organic Chemistry and Biochemistry with Lab (CHEM106/CHEM106L) <u>or</u> General Chemistry II with Lab (CHEM111/CHEM111L)	5
Statistics (MATH120)	3
Upper Division (may include environmental science or biology courses)	12
<b>Total Units</b>	<b>45</b>

## Bachelor of Science

The Bachelor of Science in Environmental Science degree is designed for students who desire more specialized training. Each of the concentrations for this degree is described below.

### **Ecological Research Concentration**

The ecological research concentration is designed to prepare students who are on track for a graduate program in the environmental sciences. This concentration will provide quantitative and technical skills to implement ecological research in the field.

### **Ecology and Field Biology Concentration**

This concentration is designed for students who seek a greater emphasis on the analytical and technical skills to implement ecological studies in the field. It is particularly well suited for those seeking careers in government, private firms, or nonprofits as wildlife biologists, environmental consultants, or conservation scientists.

## Degree Requirements

Foundational Studies	52 units
Environmental Science major	59-60 units
General education free electives	16-17 units
<b>Degree Total</b>	<b>128 units</b>

Transfer students may refer to "General Education and Bible Options for Transfer Students" for optional requirements under Foundational Studies.

## Environmental Science Major

The following courses are part of the requirement for this major and are recommended to fulfill general education requirements.

Environmental Law and Policy (ESCI360) <u>or</u> American Environmental History and Policy (ESCI362)	3 (GE: Social and Behavioral Science)
Principles of Biology I and II with Labs (BIOL101/101L and BIOL102/102L)	10 (GE: Physical and Biological Sciences)
Origins (BIOL176)	3 (GE: Biblical Studies)
Calculus I (MATH140)	4 (GE: Mathematics and Quantitative Reasoning)

### **Core Courses**

Earth and Environmental Science with Lab (ESCI131/ESCI131L)	4
General Ecology with Lab (ESCI210/ESCI210L)	4
Environmental Chemistry with Lab (ESCI320/ESCI320L)	4
Introduction to Geographic Information Systems with Lab (ESCI340/ESCI340L)	4
Environmental Ethics (ESCI350) <u>or</u> Environmental Literature (ESCI361)	3
Senior Colloquium: Thesis/Project (ESCI498)	2
Introduction to Chemistry I with Lab (CHEM105/CHEM105L) <u>or</u> General Chemistry I with Lab (CHEM110/CHEM110L)	5
Introduction to Organic Chemistry and Biochemistry with Lab (CHEM106/CHEM106L) <u>or</u> General Chemistry II with Lab (CHEM111/CHEM111L)	5
Statistics (MATH120)	3
Physics for Life Sciences I with Lab (PHYS101/PHYS101L)	4
<b>Total Units</b>	<b>38</b>

## Environmental Science Concentration\*

Students must choose a concentration or honors program listed below.

### Ecology and Field Biology Concentration (21 units)

Vertebrate Zoology w/ Lab (ESCI311/311L) <u>or</u> Field Ornithology w/ Lab (ESCI312/ESCI312L)	4
Aquatic and Marine Ecology with Lab (ESCI313/ESCI313L)	4
Field Botany with Lab (ESCI314/ESCI314L)	4
Methods in Ecology and Wildlife Biology with Lab (ESCI443/ESCI443L)	4
Upper Division Environmental Science or Biology electives	5

\*The Ecological Research Concentration – listed in the original 2018-2019 Catalog has been absorbed into the honors program.

## Environmental Science Honors Program\* (15 units)

The Environmental Science Honors Program provides a rich and deep undergraduate experience that emphasizes academic excellence and research exploration for students that are academically gifted in the environmental sciences or have an interest in interdisciplinary approaches to environmental issues. The program is open to students across majors in the sciences and humanities and emphasizes interdisciplinary collaboration. Students that desire honors will be required to complete an additional 15 semester units of specialized study in the environmental sciences and scholarly research beyond the original degree requirements to graduate with special recognition. Students that complete the honors program will be distinctly suited for graduate school and various environmental professions. The program will also provide valuable research experience for students who may be seeking careers in other fields, including human and veterinary medicine, fitness, outdoor education and leadership, professional writing, database development and management, and more.

Field Research in Ecology (ESCI442)	5
Molecular Methods with Lab (BIOL495/495L)	5
Research Assistantship in Environmental Science (ESCI497)	5-10

*If students take two semesters of ESCI497, they may choose to take either ESCI442 or BIOL495/495L. If only one semester of ESCI497 is taken, students must complete both ESCI442 and ESCI495/495L to complete the requirements for the honors program.*

\*Available to both Bachelor of Arts and Bachelor of Science Degree paths.



## Master of Arts in Leadership

Jessup's fully online Master of Arts in Leadership degree equips students to be transformational leaders in the home, church, and marketplace. Students will gain insights and develop skills that can be immediately applied to leadership roles. The program focuses strongly on leadership skills and personal development. Graduates of the program serve in churches, non-profit organizations, and government agencies.

The Christian Ministry Concentration includes five courses specifically designed to equip students for the next level of leadership and ministry within the church, whether as paid staff members or as volunteers.

The Master of Arts in Leadership also requires students to complete a Capstone Project, where students demonstrate their research, skills, and learning in a workplace-related project. This provides an opportunity to showcase knowledge and skills acquired in the program. For those seeking to enhance their leadership, the Master of Arts in Leadership is an ideal hands-on program for personal development as transformational leaders.

The Master of Arts in Leadership (MAL) is a 36-unit degree with 12 units in its core and 24 units of customized coursework for various concentrations. It has the capacity to serve constituents from various academic fields and disciplines, providing an important and valued professional degree.

At the end of the Master of Arts in Leadership program, students will be able to:

- Articulate core leadership principles.
- Demonstrate strategic leadership competencies.
- Integrate leadership with their chosen concentration or field.
- Fulfill the outcomes and objectives associated with their concentration.

### Admission Requirements

Basic full admission requirements into the program are consistent with the graduate studies policies already established by the University. They include:

- Verification of a baccalaureate degree from a regionally accredited institution
- University application form
- Two personal reference forms
- Undergraduate GPA of 3.0 or better

### Graduation Requirements

Graduation requirements from the program are consistent with the graduate studies policies already established by the University. They include:

- Successful completion of all prescribed courses and program requirements
- A 3.0 cumulative GPA (or better) associated with all graduate-level courses

### Relationship to University Mission

William Jessup University's mission statement states, "In partnership with the Church, the purpose of William Jessup University is to educate transformational leaders for the glory of God." This graduate degree is entirely consistent with the University's commitment to support and equip students for more effective leadership in their various vocations.

The Christian ministry concentration provides a highly strategic educational resource for the local church and focuses specifically on leadership development for that environment. The coursework within the concentration also addresses the spiritual formation of the student, and assignments within the concentration specifically relate to the real-time ministry experiences of the student. This particular concentration will equip students and the local church for greater effectiveness in society.



## Concentrations\*

The Christian Ministry concentration addressed the need for ministry-specific leadership training, equipping leaders with a unique spiritual formation curriculum, adaptable to church or society and applicable to real-life experiences. The fully-online Christian ministry concentration, is a customizable program that allows candidates to tailor their educational curriculum to meet their specific career goals and areas of interest while balancing biblical, professional, and personal development objectives.

Currently, the Christian Ministry is the only available concentration for Master of Arts in Leadership students. Concentrations in Coaching and Non-Profit Organizations are scheduled to launch in Fall 2019.

\*The Sports Management Concentration, originally listed in the 2018-2019 Catalog, has been expanded into a stand-alone Master's Program.

## Program Requirements, Courses, and Structure

Jessup's online Master of Arts in Leadership requires 36 credit hours. The program is divided between 22 credit hours in Leadership, 10 credit hours for the concentration, and 4 credit hours for the Capstone Project.

**The Capstone Course:** The capstone is designed to assess the student's capacity to integrate material from the entire program—personal, professional, and biblical elements. In a sense, it serves as the “glue” to the program. While the MAL does not utilize traditional “sequencing” of courses, each course contributes in a tangible way to the capstone project.

Consistent with the Jessup Online philosophy, all courses are offered for two units of credit over seven-week periods. This philosophy allows us to:

- i) Offer more diverse coursework—10 classes for 20 units;
- ii) Create a stronger balance between professional (four courses), theological (four courses), and personal development curricula (two courses);
- iii) Distill the very best material on pertinent topics; and
- iv) Comfortably meet Carnegie unit expectations within a seven-week period for working adults (13 hours per week).

**Prerequisites:** Students who choose this degree program (not just this concentration) may need to complete additional foundational courses before graduation from the program unless they have comparable coursework already completed at the undergraduate level through an accredited institution. These courses should be taken as early as possible in one's degree progression.

Foundation courses include:

- BIBL500 Old Testament Foundations (2 units)
- BIBL505 New Testament Foundations (2 units)
- BIBL510 Art of Interpretation (2 units)

The full schedule of courses can be found at the website: [jessup.edu/MAL](http://jessup.edu/MAL).