

**WINONA STATE UNIVERSITY**  
**NEW AND REVISED COURSE AND PROGRAM APPROVAL FORM**

Routing form for new and revised courses and programs.

Course or Program BIOL 406 Ornithology

**Department Recommendation**

Ed W Thompson  
Department Chair

12/6/13  
Date

ethompson@winona.edu  
e-mail address

**Dean's Recommendation** ☒ Yes

☐ No\*

Charles Murtz  
Dean of College

12/19/13  
Date

\*The dean shall forward his/her recommendation to the chair of the department, the chair of A2C2, and the Vice President for Academic Affairs.

**A2C2 Recommendation** ☐ Approved ☐ Disapproved

\_\_\_\_\_  
Chair of A2C2

\_\_\_\_\_  
Date

**Graduate Council Recommendation**  
(if applicable)

☐ Approved

☐ Disapproved

\_\_\_\_\_  
Chair of Graduate Council

\_\_\_\_\_  
Date

\_\_\_\_\_  
Director of Graduate Studies

\_\_\_\_\_  
Date

**Faculty Senate Recommendation** ☐ Approved ☐ Disapproved

\_\_\_\_\_  
President of Faculty Senate

\_\_\_\_\_  
Date

**Academic Vice President Recommendation** ☐ Approved ☐ Disapproved

\_\_\_\_\_  
Academic Vice President

\_\_\_\_\_  
Date

**Decision of President** ☐ Approved ☐ Disapproved

\_\_\_\_\_  
President

\_\_\_\_\_  
Date

Please forward to Registrar.

Registrar

\_\_\_\_\_  
Date entered

Please notify department chair via e-mail that curricular change has been recorded.

# WINONA STATE UNIVERSITY

## PROPOSAL FOR A REVISED COURSE

This form is to be used to submit proposed revisions to an existing undergraduate or graduate course which can not be changed with the Notification Form. Every item on this form must be completed prior to submission to A2C2. The department proposing this revision must include a **Financial and Staffing Data Sheet** and the **New and Revised Course and Program Approval Form** with department chairperson's and Dean's signatures. Refer to Regulation 3-4, **Policy for Changing the Curriculum**, for complete information on submitting proposals for curricular changes.

Department Biology Date 11/18/13

*Please provide all of the current information for this course:*

BIOL 320 Ornithology 4  
Course No. Course Title Credits

This proposal is for a(n): ☒ Undergraduate Course ☐ Graduate Course

Is this course for USP? ☐ Yes\*\* ☒ No Is this course for GEP? ☐ Yes\*\* ☒ No

List all Major Codes to which this proposal applies as a required course: **BIES**

List all Major Codes to which this proposal applies as an elective course: **BIEC, BIES, BICM, BIAH, BLST**

List all Minor Codes to which this proposal applies as a required course:

List all Minor Codes to which this proposal applies as an elective course: **BIOL**

Prerequisites BIOL 308, 310, 312, CHEM 212

Grading Method ☒ Grade only ☐ P/NC only ☐ Grade and P/NC Option

Frequency of offering Alternate years (spring)

*Please indicate any proposed changes in this course information*

BIOL 406    
Course No. Course Title Credits\*

This proposal is for a(n): ☐ Undergraduate Course ☐ Graduate Course

Is this course for USP? ☐ Yes\*\* ☐ No Is this course for GEP? ☐ Yes\*\* ☐ No

List all Major Codes to which this proposal applies as a required course:

List all Major Codes to which this proposal applies as an elective course:

List all Minor Codes to which this proposal applies as a required course:

List all Minor Codes to which this proposal applies as an elective course:

Prerequisites BIOL 308, 310, 312, 313

Grading Method ☐ Grade only ☐ P/NC only ☐ Grade and P/NC Option

Frequency of offering

\* If this course will change the number of credits for any major or minor, the form **Proposal for a Revised Program** must also be submitted and approved according to the instructions on that form.

**\*\*For General Education Program (GEP) or University Studies (USP) course approval, the form *Proposal for General Education Courses* or *Proposal for University Studies Courses* must also be completed and submitted according to the instructions on that form.**

**Please provide all of the following information:**

(Note: a syllabus or other documentation may not substitute for this)

A. **Changes in the Course Description.** This information will be submitted to MnSCU by the WSU Registrar's office.

1. Provide both the current and the revised catalog descriptions of this course, including credit hours, prerequisites, and grading method. Please place these in two columns, side-by-side, for easy comparison.

**BIOL 320 - Ornithology**

(4 S.H.)

Structure, classification, behavior, distribution, and identification of birds.

Lecture, laboratory, and fieldwork.

Prerequisites: BIOL 308 - Cell Biology, BIOL 310 - Genetics, BIOL 312 - General Ecology, and CHEM 212 - Principles of Chemistry I or instructor's permission. Offered alternate years.

**BIOL 406 - Ornithology**

(4 S.H.)

Structure, classification, behavior, distribution, and identification of birds.

Lectures emphasize bird evolution, anatomy, physiology, and reproductive behaviors.

Labs focus on local bird identification and taxonomy and methods and techniques of gathering and analyzing data. Lecture, fieldwork, and laboratory. Prerequisites:

BIOL 308 - Cell Biology, BIOL 310 - Genetics, BIOL 312 - General Ecology, and BIOL 313 - General Ecology Laboratory. Offered alternate years.

2. Provide both the current and the revised course outline of the major topics and subtopics to be covered in the course. These outlines should be, at a minimum, two-level outlines of topics and subtopics. Place these in two columns, side-by-side, for easy comparison.

**BIOL 320 course outline:**

**Bird Structure & Function**

**Taxonomy in North America**

Orders & Families

Characteristics

Food Habits

Distribution

Residence Status

**Bird Behavior**

Song

Flocking

**Reproduction & Growth**

Nests & Eggs

Rearing & Growth

**Birds & Human Disease**

**Population Dynamics**

**BIOL 406 course outline:**

**Evolution and Anatomy**

Introduction

Origin, Evolution, & Taxonomy

**Physiology & Courtship**

Physiological processes

Song Production and Use

Territories

Courtship Behavior

**Reproduction, Ecology, & Behavior**

Nest Construction

Reproduction

Egg Laying & Young

Ecology

Behavior

**Flight & More**

Bird Zoogeography

Flight & Migration

Bird/Human Interactions

3.a Instructional delivery methods utilized: (Please check all that apply).

Auditorium/Classroom X	ITV	Online	Web Enhanced	Web Supplemented
Laboratory X	Service Learning	Travel Study	Internship/Practicum	
Other: (Please indicate) X Field trips				

3.b. MnSCU Course media codes: (Please check all that apply).

None: X	3. Internet	6. Independent Study	9. Web Enhanced
1. Satellite	4. ITV Sending	7. Taped	10. Web Supplemented
2. CD Rom	5. Broadcast TV	8. ITV Receiving	

4. Describe both the current and the revised course requirements (papers, lab work, projects, etc.) and means of evaluation. Place these in two columns, side-by-side, for easy comparison.

**BIOL 320 requirements:**

3 unit exams – in-class essays  
 Lab exam – taxonomy, study skins  
 Field identification exam – sight & song

**BIOL 406 requirements:**

4 unit exams – in-class essays  
 8 lab reports – data analysis, narrative  
 2 lab exams – 1 taxonomy & study skins, 1 field identification (sight, song)  
 1 research paper (independent research project)

5. Describe both the current and the revised course materials (textbook(s), articles, etc.) to be used in this course. Place these in two columns, side-by-side, for easy comparison.

**BIOL 320 texts:**

The Life of Birds (Welty & Baptista)  
 Field Guide to Birds of Eastern North America (Peterson)

**BIOL 406 texts:**

The Life of Birds (Welty & Baptista)  
 Ornithology (Gill)  
 Birds of North America (Kaufman)  
 iBird (app for iPad)  
 Field & Laboratory Methods for General Ecology (Brower et al.)

6. List both the current and the revised student learning outcomes for this course and how each outcome will be assessed. Place these in two columns, side-by-side, for easy comparison

**BIOL 320 student learning outcomes:**

- Students will acquire knowledge of bird origins, evolution, anatomy, physiology, and behavior.
  - Lecture exams
- Students will become familiar with bird taxonomy.
  - Lecture exams
  - Lab exam
- Students will learn to identify local birds by sight and sound and recognize their preferred habitats.
  - Lab exams

**BIOL 406 student learning outcomes:**

- Students will acquire knowledge of bird origins, evolution, anatomy, physiology, and behavior.
  - Lecture exams
  - Lab exercises
  - Research paper
- Students will become familiar with bird taxonomy.
  - Lecture exams
  - Lab exam
- Students will learn to identify local birds by sight and sound and recognize their preferred habitats.
  - Lab exams
  - Lab exercises

**B. Rationale**

Provide a rationale for each of the changes proposed.

We propose to change the course number from BIOL 320 to BIOL 406. This new, proposed course number more accurately conforms to the level at which this course will be taught and the expectations for students taking this course. With four course prerequisites all at the 300-level (BIOL 308, 310, 312, 313), this course is restricted to only upper-level Biology majors/minors. Increased expectations for student data collection, analysis, and writing resulting from fieldwork justify the change in course number to 400-level to match other, existing BIOL courses with similar rigor and expectations. The change in course prerequisites (remove CHEM 212, add BIOL 313) removes an unnecessary listing (CHEM 212) and adds one course already required for all BIES and BIEC majors.

**C. Impact of These Changes on Other Departments, Programs, Majors, and Minors**

1. Clearly state the impact of this revision on courses taught in other departments. Does this course duplicate the content of any other course? Is there an effect on prerequisites for this or any other courses?

No impact, no duplication, no effect on prerequisites.

2. Would approval of this course revision change the total number of credits required by any major or minor of any department? If so, explain the effects which this course revision would have.

No.

3. If this revision has an impact on the major or minor of any other department or program, it is the responsibility of the department submitting the proposal to send written notification to the department(s) or program(s) affected. State clearly which other programs are affected by this proposal and whether the other departments have been notified and/or consulted. Attach letter(s) of understanding from impacted department(s).

No impact on major/minor of other departments/programs.

**D. Attach to This Proposal a Completed**

1. *Financial and Staffing Data Sheet*
2. *New and Revised Course and Program Approval Form*

**E. Department Contact Person for this Proposal:**

Neal D. Mundahl

Name (please print)

507-457-5695

Phone

nmundahl@winona.edu

e-mail address

**F. Review by Department A2C2 Representative**

I have reviewed this proposal and certify that it is complete

*Ed W Thompson*

Signature of A2C2 representative

Definitions for codes in 3a and 3b:

01-Satellite:

02- CD Rom:

03- Internet: Predominately = where all, or nearly all, course activity occurs in an online environment. One to two activities may occur face-to-face in a classroom, with the maximum being two activities.

04 – ITV Sending: a course in which students are in the classroom with the instructor, other students join via interactive television technology from other geographically separate locations

05 – Broadcast TV:

06 – Independent Study: a course in which the teacher develops specialized curriculum for the student(s) based on department guidelines in the University course catalog

07 – Taped: a course in which the teacher records the lessons for playback at a later date

08 – ITV Receiving: a course in which students are not in the classroom with the teacher, other students join via interactive television technology from other geographically separate locations

09 – Web Enhanced- Limited Seat Time: For a course in which students are geographically separate from the teacher and other students for a majority of required activities. However, some on-site attendance is required. The course includes synchronous and/or asynchronous instruction.

10 – Web Supplemented- No Reduced Seat Time: For a course utilizing the web for instructional activities. Use of this code may assist your college/university in tracking courses for “smart classrooms” and/or facility usage.

## WINONA STATE UNIVERSITY FINANCIAL AND STAFFING DATA SHEET

Course or Program BIOL 406 Ornithology

Include a Financial and Staffing Data Sheet with any proposal for a new course, new program, or revised program.

Please answer the following questions completely. Provide supporting data.

1. Would this course or program be taught with existing staff or with new or additional staff? If this course would be taught by adjunct faculty, include a rationale.

This class will be taught with existing staff. No new, additional, or adjunct staff will be needed to teach this course.

2. What impact would approval of this course/program have on current course offerings? Please discuss number of sections of current offerings, dropping of courses, etc.

Approval of this course change will have no effect on current course offerings. The class currently is taught on an alternate-year basis (one section only), during spring semesters of odd-numbered years. That same schedule will be followed if this change is approved.

3. What effect would approval of this course/program have on the department supplies? Include data to support expenditures for staffing, equipment, supplies, instructional resources, etc.

Approval of this course change will result in no change in support expenditures for this class. We predict no change will be needed in staffing, equipment, supplies, or instructional resources compared to what is currently being used by the course during its present alternate-year offering.

