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| --- | --- |
| For Academic Affairs and Research Use Only | |
| Proposal Number | LAC59 |
| CIP Code: |  |
| Degree Code: |  |

**New or Modified Course Proposal Form**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

|  |
| --- |
| **[ ]New Course, [ ]Experimental Course (1-time offering), or [X]Modified Course (Check one box)** |

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

|  |  |
| --- | --- |
| Amy Buzby 3/11/2021 **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| William P. McLean 3/11/2021 **Department Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Head of Unit (if applicable)** |
| Warren Johnson 3/16/2021  **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **Director of Assessment (new courses only)** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
| Gina Hogue 3/17/2021 **College Dean** | Alan Utter 4/12/2021  **Vice Chancellor for Academic Affairs** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **General Education Committee Chair (if applicable)** |  |

1. **Contact Person (Name, Email Address, Phone Number)**

Hans J. Hacker, hhacker@astate.edu, 870-972-2257

1. **Proposed starting term and Bulletin year for new course or modification to take effect**

Fall; 2021; Bulletin Year 2021-2022

**Instructions:**

*Please complete all sections unless otherwise noted. For course modifications, sections with a “Modification requested?” prompt need not be completed if the answer is “No.”*

|  |  |  |
| --- | --- | --- |
|  | **Current (Course Modifications Only)** | **Proposed (New or Modified)**  *(Indicate “N/A” if no modification)* |
| **Prefix** | **POSC** | **N/A** |
| **Number\*** | **4533** | **4633** |
| **Title** | **Environmental Law and Administration** | **N/A** |
| **Description\*\*** | PUBLIC ADMINISTRATION. Overview of current environmental law, its administration and enforcement. | **N/A** |

***\**** (Confirm with the Registrar’s Office that number chosen has not been used before and is available for use. For variable credit courses, indicate variable range. *Proposed number for experimental course is 9*. )

\*\*Forty words or fewer as it should appear in the Bulletin.

1. **Proposed prerequisites and major restrictions** **[Modification requested? No]**

(Indicate all prerequisites. If this course is restricted to a specific major, which major. If a student does not have the prerequisites or does not have the appropriate major, the student will not be allowed to register).

1. **No** Are there any prerequisites?
   1. If yes, which ones?

Enter text...

* 1. Why or why not?

Enter text...

1. **No** Is this course restricted to a specific major?
   1. If yes, which major? Enter text...
2. **Proposed course frequency [Modification requested? No]**

(e.g. Fall, Spring, Summer; if irregularly offered, please indicate, “irregular.”) *Not applicable to Graduate courses.*

Enter text...

1. **Proposed course type [Modification requested? No]**

Will this course be lecture only, lab only, lecture and lab, activity (e.g., physical education), dissertation/thesis, capstone, independent study, internship/practicum, seminar, special topics, or studio? Please choose one.

Enter text...

1. **Proposed grade type [Modification requested? No]**

What is the grade type (i.e. standard letter, credit/no credit, pass/fail, no grade, developmental, or other [please elaborate])

Enter text...

1. **No** Is this course dual-listed (undergraduate/graduate)?
2. **No** Is this course cross-listed?

*(If it is, all course entries must be identical including course descriptions. Submit appropriate documentation for requested changes. It is important to check the course description of an existing course when adding a new cross-listed course.)*

**a.** – If yes, please list the prefix and course number of the cross-listed course.

Enter text...

**b.** – **Yes / No** Can the cross-listed course be used to satisfy the prerequisite or degree requirements this course satisfies?

Enter text...

1. **No** Is this course in support of a new program?

a. If yes, what program?

Enter text...

1. **No** Will this course be a one-to-one equivalent to a deleted course or previous version of this course (please check with the Registrar if unsure)?

a. If yes, which course?

Enter text...

**Course Details**

1. **Proposed outline** **[Modification requested? No]**

(The course outline should be topical by weeks and should be sufficient in detail to allow for judgment of the content of the course.)

Enter text...

1. **Proposed special features** **[Modification requested? No]**

(e.g. labs, exhibits, site visitations, etc.)

Enter text...

1. **Department staffing and classroom/lab resources**

None

1. Will this require additional faculty, supplies, etc.?

No

1. **No** Does this course require course fees?

*If yes: please attach the New Program Tuition and Fees form, which is available from the UCC website.*

**Justification**

**Modification Justification (Course Modifications Only)**

1. Justification for Modification(s)

The Department of Political Science is renumbering its courses to identify each with subfields from which students may select options. The designation of a 6 as the second number (e.g., 36## or 46##) will identify the course as satisfying the Department’s requirement that undergraduates take at least one course from that sub-field. Environmental Law and Administration will remain a PUBLIC ADMINISTRATION course (one of the other sub-fields), but its number will reflect that students studying public law may take it as part of the undergraduate public law curriculum as well.

**New Course Justification (New Courses Only)**

1. Justification for course. Must include:

a. Academic rationale and goals for the course (skills or level of knowledge students can be expected to attain)

Enter text...

b. How does the course fit with the mission of the department? If course is mandated by an accrediting or certifying agency, include the directive.

Enter text...

c. Student population served.

Enter text...

d. Rationale for the level of the course (lower, upper, or graduate).

Enter text...

**Assessment**

**Assessment Plan Modifications (Course Modifications Only)**

1. **No** Do the proposed modifications result in a change to the assessment plan?

*If yes, please complete the Assessment section of the proposal*

**Relationship with Current Program-Level Assessment Process (Course modifications skip this section unless the answer to #18 is “Yes”)**

1. What is/are the intended program-level learning outcome/s for students enrolled in this course? Where will this course fit into an already existing program assessment process?

Enter text...

1. Considering the indicated program-level learning outcome/s (from question #19), please fill out the following table to show how and where this course fits into the program’s continuous improvement assessment process.

*For further assistance, please see the ‘Expanded Instructions’ document available on the UCC - Forms website for guidance, or contact the Office of Assessment at 870-972-2989.*

|  |  |
| --- | --- |
| **Program-Level Outcome 1 (from question #19)** | Type outcome here. What do you want students to think, know, or do when they have completed the course? |
| Assessment Measure | Please include direct and indirect assessment measure for outcome. |
| Assessment  Timetable | What semesters, and how often, is the outcome assessed? |
| Who is responsible for assessing and reporting on the results? | Who (person, position title, or internal committee) is responsible for assessing, evaluating, and analyzing results, and developing action plans? |

*(Repeat if this new course will support additional program-level outcomes)*

**Course-Level Outcomes**

1. What are the course-level outcomes for students enrolled in this course and the associated assessment measures?

|  |  |
| --- | --- |
| **Outcome 1** | Type outcome here. What do you want students to think, know, or do when they have completed the course? |
| Which learning activities are responsible for this outcome? | List learning activities. |
| Assessment Measure | What will be your assessment measure for this outcome? |

*(Repeat if needed for additional outcomes)*

**Bulletin Changes**

|  |
| --- |
| **Instructions** |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Please include a before (with changed areas highlighted) and after of all affected sections.**  **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.** |

**2020-2021 Undergraduate Bulletin**

**CURRENT**

**p. 241**

**Major in Criminology (cont.)**

**Bachelor of Arts**

A complete 8-semester degree plan is available [at https://www.astate.edu/info/academics/degrees/](http://www.astate.edu/info/academics/degrees/)

|  |  |
| --- | --- |
| **Electives (select 21 hours from the following):**  CRIM 2043, Community Relations CRIM 2253, Criminal Investigation  CRIM 2263, Criminal Evidence and Procedure  *If not used for major core course requirement.*  CRIM 3323, Juvenile Delinquency CRIM 3423, Serial Homicide  CRIM 4103, Criminal Justice Systems CRIM 460V, Special Problems  CRIM 470V, Internship  HIST 3583, History of Law Enforcement POSC 3113, American Municipal Government POSC 3143, State and Local Government  POSC 3183, Criminal Law and the Constitution  *If not used for major core course requirement.* POSC ~~4533~~ 4633, Environmental Law and Administration PSY 3413, Adolescent Psychology  PSY 4533, Abnormal Psychology SOC 2223, Social Problems SOC 3273, Social Stratification SOC 3293, Self and Society SOC 3353, Minority Groups SOC 3463, Collective Behavior  SOC 4003, Perspectives on Death and Dying SOC 4063, Sociology of Disasters  SOC 4073, Sociology of Family Violence **OR**  SW 4213, Introduction to Domestic Violence SOC 4203, Social Deviance  SOC 4233, Social Organization SOC 4243, Social Theory  SOC 4253, Rural Sociology  SOC 4263, Terrorism as a Social Movement SOC 4273, World Population and Society SOC 4283, Qualitative Data Analysis  SOC 4323, Applied Research  SOC 4333, Sociology of Youth Subcultures SOC 4363, Environmental Sociology  SW 3323, Substance Abuse: Intervention and Treatment SW 3343, Child Abuse and Neglect | 21 |
| **Sub-total** | **48** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **22-34** |
| **Total Required Hours:** | **120** |

**p. 395 [BA Environmental Sciences**]

|  |  |
| --- | --- |
| **Choose any of the courses below among the five focus areas. Students can choose**  **to stay within one focus area, or may take courses from any focus area depending on interest and career aspirations:**  **Biology Focus**  BIO 3033, Evolution  BIO 3313 AND 3311, Economic Entomology and Laboratory BIO 4333, Marine Biology  BIO 4373 AND 4371, Animal Ecology and Laboratory BIO 4813, Curation of Collections  BIO 4823, Natural History Collections Research Design  **Agriculture / Sustainability Focus**  AGRI 4223, Agriculture and the Environment AGRI 4433, Organic Agriculture Production  CE 3263, Introduction ot Environmental Engineering GEOG 4613, Conservation of Natural Resources HORT 3253, Urban Forestry  PSSC 2811, Soils Laboratory PSSC 4813, Soil Fertility  RET 3113, Fundamentals and Applications of Renewable Energy RET 4023, Advanced Bioenergy  RET 4113, Advanced Renewable Energy Systems RET 4123, Energy Conservation and Efficiency  **Geospatial Focus**  AGST 3543, Fundamentals of GIS/GPS  AGST 4543, Understanding Geographic Information Systems AGST 4773, Remote Sensing  GEOG 3603, World Regional Geography  GEOG 3723, Introduction to Physical Geography, Weather, and Climate  **Economic / Policy / Social Focus**  CRIM 2043, Community Relations in the Administration of Justice POSC 3503, Principles of Public Administration  POSC 3513, Public Budgeting Process POSC 4143, Public Opinion and Public Policy POSC 4503, Public Policy, Politics and Power  POSC 4513, Disaster Response Operation Management POSC 4523, Public Personnel Administration  POSC ~~4533~~ 4633, Environmental Law and Administration  **Communication Focus**  MDIA 4003, Communications Law and Ethics COMS 3243, Principles of Persuasion COMS 3253, Principles of Listening  COMS 4253, Intercultural Communication COMS 4263, Organizational Communication COMS 4773, Conflict Resolution  STCM 4023, Public Opinion, Propaganda and the Mass Media STCM 4603, Crisis Communication  STCM 2143, Strategic Writing  STCM 3043, Principles of Strategic Communication STCM 3143, Strategic Writing II  STCM 4073, Strategic Communication Law and Ethics STCM 4213, Social Media in Strategic Communication STCM 4503, Seminar in Non Profit Communication STCM 4763, Strategic Communication Campaigns | 42 |
| **Sub-total** | **69** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **13** |
| **Total Required Hours:** | **120** |

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**Major in Environmental Science (cont.)**

**Bachelor of Science**

A complete 8-semester degree plan is available [at https://www.astate.edu/info/academics/degrees/](http://www.astate.edu/info/academics/degrees/)

|  |  |
| --- | --- |
| **Choose any of the courses below among the five focus areas. Students can choose to stay within one focus area, or may take courses from any focus area depending on interest and career aspirations:**  **Biology Focus**  BIO 3013 AND 3011, Genetics and Laboratory BIO 3033, Evolution  BIO 4104, Microbiology BIO 4333, Marine Biology  BIO 4373 AND 4371, Animal Ecology and Laboratory BIO 4623, Environmental Microbiology  BIO 4633, Environmental Toxicology Mechanisms and Impacts  **Chemistry Focus**  CHEM 3054, Quantitative Analysis  CHEM 3153, Survey of Physical Chemistry CHEM 4043, Environmental Chemistry CHEM 4243, Biochemistry  CHEM 4241, Biochemistry Laboratory  **Agriculture / Sustainability Focus**  AGRI 4223, Agriculture and the Environment  CE 3263, Introduction ot Environmental Engineering GEOG 4613, Conservation of Natural Resources PSSC 4813, Soil Fertility  **Geospatial Focus**  AGST 3543, Fundamentals of GIS/GPS  AGST 4543, Understanding Geographic Information Systems AGST 4773, Remote Sensing  GEOG 3723, Introduction to Physical Geography, Weather, and Climate  **Economic / Policy / Social Focus**  ECON 4363, Global Environmental Policies GEOG 4113, Water Resource Planning PHIL 4733, Environmental Ethics  POSC ~~4533~~ 4633, Environmental Law and Administration | 19 |
| **Sub-total** | **72** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **9** |
| **Total Required Hours:** | **120** |

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**Major in Wildlife, Fisheries and Conservation**

**Bachelor of Science Emphasis in Fisheries**

A complete 8-semester degree plan is available [at https://www.astate.edu/info/academics/degrees/](http://www.astate.edu/info/academics/degrees/)

|  |  |
| --- | --- |
| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 42) |  |
| **First Year Making Connections Course:** | **Sem. Hrs.** |
| BIO 1013, Making Connections - Biology | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 78)  **Students with this major must take the following:**  *Students with this major must take the following:*  *MATH 1054, Precalculus Mathematics or MATH course that requires MATH 1023 as a prerequisite*  *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory BIO 2013* ***AND*** *2011, Biology of the Cell and Laboratory*  *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)* | **36** |
| **Language Requirement:** | **Sem. Hrs.** |
| *A student must complete the foreign language requirements before being considered a Major in Wildlife, Fisheries and Conservation Major. (Refer to Department of Biological Sci- ences Foreign Language Requirement).* |  |
| **Major Requirements:** | **Sem. Hrs.** |
| See emphasis area below. | **-** |
| **Emphasis Area (Fisheries):** | **Sem. Hrs.** |
| AGST 3543, Fundamentals of GIS/GPS | 3 |
| BIO 1303 **AND** 1301, Biology of Animals and Laboratory | 4 |
| BIO 1503 **AND** 1501, Biology of Plants and Laboratory | 4 |
| BIO 3013 **AND** 3011, Genetics and Laboratory | 4 |
| BIO 3023, Principles of Ecology | 3 |
| BIO 3033, Evolution **OR**  BIO 4333, Marine Biology | 3 |
| BIO 4021, Biological Seminar | 1 |
| BIO 4301 AND 4302, Aquatic Entomology and Laboratory | 3 |
| BIO 4312 AND 4311, Fisheries Biology and Laboratory | 3 |
| BIO 4362, Applied Aquaculture **OR**  BIO 4372, Applied Fisheries | 2 |
| BIO 4402 AND 4401, Ichthyology and Laboratory | 3 |
| BIO 4443, Fisheries Program Internship | 3 |
| BIO 4603 AND 4601, Limnology and Laboratory | 4 |
| CHEM 1023 AND 1021, General Chemistry II and Laboratory | 4 |
| MATH 2194, Survey of Calculus **OR**  MATH 2204, Calculus I | 4 |
| PHYS 2054, General Physics I | 4 |
| PHYS 2064, General Physics II | 4 |
| STAT 3233, Applied Statistics I | 3 |
| **Select two of the following:**  BIO 3673, Human Dimensions of Natural Resources BIO 4613, Conservation Biology  POSC ~~4533~~ 4633, Environmental Law and Administration | 6 |

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**Major in Wildlife, Fisheries and Conservation (cont.)**

**Bachelor of Science Emphasis in Wildlife**

A complete 8-semester degree plan is available [at https://www.astate.edu/info/academics/degrees/](http://www.astate.edu/info/academics/degrees/)

|  |  |
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| **Select two of the following:**  BIO 3673, Human Dimensions of Natural Resources BIO 4613, Conservation Biology  POSC ~~4533~~ 4633, Environmental Law and Administration | 6 |
| **Select two of the following:**  BIO 4352 **AND** 4351, Mammalogy and Laboratory BIO 4412 **AND** 4411, Herpetology and Laboratory BIO 4423 **AND** 4421, Ornithology and Laboratory | 6-7 |
| **Botany elective:**  BIO 3501 **AND** BIO 3511, Wild Flowers of Arkansas and Laboratory. BIO 3542 **AND** BIO 3541, Plant Pathology and Laboratory  BIO 3553. Economic Botany BIO 4513. Plant Physiology  BIO 4522 **AND** BIO 4521, Wetland Plant Ecology and Laboratory BIO 4542 **AND** BIO 4541, Mycology and Laboratory  BIO 4552 **AND** BIO 4551, Medical Mycology and Laboratory BIO 4714, Dendrology  *Other courses approved by advisor* | 3 |
| **Communication elective:**  ENG 3043. Technical Writing  *See advisor for acceptable substitutions.* | 3 |
| **Zoology electives:**  BIO 3303 **AND** BIO 3301, General Entomology and Laboratory BIO 3313 **AND** BIO 3311, Economic Entomology and Laboratory BIO 3302 **AND** BIO 3312, Comparative Anatomy and Laboratory BIO 3322 **AND** BIO 3332, Invertebrate Zoology and Laboratory  BIO 4322 **AND** BIO 4323, Biology of Marine Mammals and Laboratory BIO 4332 **AND** BIO 4342, Animal Histology and Laboratory  BIO 4333, Marine Biology  BIO 4343 **AND** BIO 4341, Animal Embryology and Laboratory BIO 4352 **AND** BIO 4351, Mammology and Laboratory  BIO 4362, Applied Aquaculture  BIO 4363 **AND** BIO 4361, Mammalian Neurobiology and Laboratory BIO 4372, Applied Fisheries  BIO 4382 **AND** BIO 4392, Parasitology and Laboratory BIO 4403, Comparative Vertebrate Reproduction  BIO 4412 **AND** BIO 4411, Herpetology and Laboratory BIO 4423 **AND** BIO 4421, Ornithology and Laboratory BIO 4433, Field Experience in Marine Environments  BIO 4443 **AND** 4441, Comparative Animal Physiology and Laboratory  *An individual course cannot be used as both a required course and an elective.* | 5-7 |
| **Sub-total** | **81** |
| **Total Required Hours:** | **120** |

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POSC 4503. Public Policy, Politics and Power PUBLIC ADMINISTRATION Provides a framework for understanding the fundamentals of the American public policy making process, the political context in which it operates and the theories of power that affect it. Spring, even.

POSC 4513. Disaster Response Operation Management PUBLIC ADMINISTRATION. Roles and responsibilities of public managers and others within the National Incident Management System. May be credited toward Minor in Homeland Security and Disaster Preparedness. Fall-odd.

POSC 4523. Public Personnel Administration  PUBLIC ADMINISTRATION. Policies, methods, and techniques utilized in public personnel. Fall, odd.

POSC ~~4533~~ 4633. Environmental Law and Administration  PUBLIC ADMINISTRATION. Overview of current environmental law, its administration and enforcement. Spring, even.

POSC 4553. HSDP Capstone PUBLIC ADMINISTRATION. Application of skills and knowledge gained in the minor to the analysis of a specific need or problem and the design of solutions. Teamwork among various specialties with the field. Instructor permission required. Cross listed as DPEM 4553. Spring.

**PROPOSED**

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**Major in Criminology (cont.)**

**Bachelor of Arts**

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| --- | --- |
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| **Sub-total** | **48** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **22-34** |
| **Total Required Hours:** | **120** |

**p. 395 [BA Environmental Sciences**]

|  |  |
| --- | --- |
| **Choose any of the courses below among the five focus areas. Students can choose**  **to stay within one focus area, or may take courses from any focus area depending on interest and career aspirations:**  **Biology Focus**  BIO 3033, Evolution  BIO 3313 AND 3311, Economic Entomology and Laboratory BIO 4333, Marine Biology  BIO 4373 AND 4371, Animal Ecology and Laboratory BIO 4813, Curation of Collections  BIO 4823, Natural History Collections Research Design  **Agriculture / Sustainability Focus**  AGRI 4223, Agriculture and the Environment AGRI 4433, Organic Agriculture Production  CE 3263, Introduction ot Environmental Engineering GEOG 4613, Conservation of Natural Resources HORT 3253, Urban Forestry  PSSC 2811, Soils Laboratory PSSC 4813, Soil Fertility  RET 3113, Fundamentals and Applications of Renewable Energy RET 4023, Advanced Bioenergy  RET 4113, Advanced Renewable Energy Systems RET 4123, Energy Conservation and Efficiency  **Geospatial Focus**  AGST 3543, Fundamentals of GIS/GPS  AGST 4543, Understanding Geographic Information Systems AGST 4773, Remote Sensing  GEOG 3603, World Regional Geography  GEOG 3723, Introduction to Physical Geography, Weather, and Climate  **Economic / Policy / Social Focus**  CRIM 2043, Community Relations in the Administration of Justice POSC 3503, Principles of Public Administration  POSC 3513, Public Budgeting Process POSC 4143, Public Opinion and Public Policy POSC 4503, Public Policy, Politics and Power  POSC 4513, Disaster Response Operation Management POSC 4523, Public Personnel Administration  POSC 4633, Environmental Law and Administration  **Communication Focus**  MDIA 4003, Communications Law and Ethics COMS 3243, Principles of Persuasion COMS 3253, Principles of Listening  COMS 4253, Intercultural Communication COMS 4263, Organizational Communication COMS 4773, Conflict Resolution  STCM 4023, Public Opinion, Propaganda and the Mass Media STCM 4603, Crisis Communication  STCM 2143, Strategic Writing  STCM 3043, Principles of Strategic Communication STCM 3143, Strategic Writing II  STCM 4073, Strategic Communication Law and Ethics STCM 4213, Social Media in Strategic Communication STCM 4503, Seminar in Non Profit Communication STCM 4763, Strategic Communication Campaigns | 42 |
| **Sub-total** | **69** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **13** |
| **Total Required Hours:** | **120** |

**p. 397**

**Major in Environmental Science (cont.)**

**Bachelor of Science**

A complete 8-semester degree plan is available [at https://www.astate.edu/info/academics/degrees/](http://www.astate.edu/info/academics/degrees/)

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| **Choose any of the courses below among the five focus areas. Students can choose to stay within one focus area, or may take courses from any focus area depending on interest and career aspirations:**  **Biology Focus**  BIO 3013 AND 3011, Genetics and Laboratory BIO 3033, Evolution  BIO 4104, Microbiology BIO 4333, Marine Biology  BIO 4373 AND 4371, Animal Ecology and Laboratory BIO 4623, Environmental Microbiology  BIO 4633, Environmental Toxicology Mechanisms and Impacts  **Chemistry Focus**  CHEM 3054, Quantitative Analysis  CHEM 3153, Survey of Physical Chemistry CHEM 4043, Environmental Chemistry CHEM 4243, Biochemistry  CHEM 4241, Biochemistry Laboratory  **Agriculture / Sustainability Focus**  AGRI 4223, Agriculture and the Environment  CE 3263, Introduction ot Environmental Engineering GEOG 4613, Conservation of Natural Resources PSSC 4813, Soil Fertility  **Geospatial Focus**  AGST 3543, Fundamentals of GIS/GPS  AGST 4543, Understanding Geographic Information Systems AGST 4773, Remote Sensing  GEOG 3723, Introduction to Physical Geography, Weather, and Climate  **Economic / Policy / Social Focus**  ECON 4363, Global Environmental Policies GEOG 4113, Water Resource Planning PHIL 4733, Environmental Ethics  POSC 4633, Environmental Law and Administration | 19 |
| **Sub-total** | **72** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **9** |
| **Total Required Hours:** | **120** |

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**Major in Wildlife, Fisheries and Conservation**

**Bachelor of Science Emphasis in Fisheries**

A complete 8-semester degree plan is available [at https://www.astate.edu/info/academics/degrees/](http://www.astate.edu/info/academics/degrees/)

|  |  |
| --- | --- |
| **University Requirements:** |  |
| See University General Requirements for Baccalaureate degrees (p. 42) |  |
| **First Year Making Connections Course:** | **Sem. Hrs.** |
| BIO 1013, Making Connections - Biology | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 78)  **Students with this major must take the following:**  *Students with this major must take the following:*  *MATH 1054, Precalculus Mathematics or MATH course that requires MATH 1023 as a prerequisite*  *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory BIO 2013* ***AND*** *2011, Biology of the Cell and Laboratory*  *COMS 1203, Oral Communication (Required Departmental Gen. Ed. Option)* | **36** |
| **Language Requirement:** | **Sem. Hrs.** |
| *A student must complete the foreign language requirements before being considered a Major in Wildlife, Fisheries and Conservation Major. (Refer to Department of Biological Sci- ences Foreign Language Requirement).* |  |
| **Major Requirements:** | **Sem. Hrs.** |
| See emphasis area below. | **-** |
| **Emphasis Area (Fisheries):** | **Sem. Hrs.** |
| AGST 3543, Fundamentals of GIS/GPS | 3 |
| BIO 1303 **AND** 1301, Biology of Animals and Laboratory | 4 |
| BIO 1503 **AND** 1501, Biology of Plants and Laboratory | 4 |
| BIO 3013 **AND** 3011, Genetics and Laboratory | 4 |
| BIO 3023, Principles of Ecology | 3 |
| BIO 3033, Evolution **OR**  BIO 4333, Marine Biology | 3 |
| BIO 4021, Biological Seminar | 1 |
| BIO 4301 AND 4302, Aquatic Entomology and Laboratory | 3 |
| BIO 4312 AND 4311, Fisheries Biology and Laboratory | 3 |
| BIO 4362, Applied Aquaculture **OR**  BIO 4372, Applied Fisheries | 2 |
| BIO 4402 AND 4401, Ichthyology and Laboratory | 3 |
| BIO 4443, Fisheries Program Internship | 3 |
| BIO 4603 AND 4601, Limnology and Laboratory | 4 |
| CHEM 1023 AND 1021, General Chemistry II and Laboratory | 4 |
| MATH 2194, Survey of Calculus **OR**  MATH 2204, Calculus I | 4 |
| PHYS 2054, General Physics I | 4 |
| PHYS 2064, General Physics II | 4 |
| STAT 3233, Applied Statistics I | 3 |
| **Select two of the following:**  BIO 3673, Human Dimensions of Natural Resources BIO 4613, Conservation Biology  POSC 4633, Environmental Law and Administration | 6 |

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**Major in Wildlife, Fisheries and Conservation (cont.)**

**Bachelor of Science Emphasis in Wildlife**

A complete 8-semester degree plan is available [at https://www.astate.edu/info/academics/degrees/](http://www.astate.edu/info/academics/degrees/)

|  |  |
| --- | --- |
| **Select two of the following:**  BIO 3673, Human Dimensions of Natural Resources BIO 4613, Conservation Biology  POSC 4633, Environmental Law and Administration | 6 |
| **Select two of the following:**  BIO 4352 **AND** 4351, Mammalogy and Laboratory BIO 4412 **AND** 4411, Herpetology and Laboratory BIO 4423 **AND** 4421, Ornithology and Laboratory | 6-7 |
| **Botany elective:**  BIO 3501 **AND** BIO 3511, Wild Flowers of Arkansas and Laboratory. BIO 3542 **AND** BIO 3541, Plant Pathology and Laboratory  BIO 3553. Economic Botany BIO 4513. Plant Physiology  BIO 4522 **AND** BIO 4521, Wetland Plant Ecology and Laboratory BIO 4542 **AND** BIO 4541, Mycology and Laboratory  BIO 4552 **AND** BIO 4551, Medical Mycology and Laboratory BIO 4714, Dendrology  *Other courses approved by advisor* | 3 |
| **Communication elective:**  ENG 3043. Technical Writing  *See advisor for acceptable substitutions.* | 3 |
| **Zoology electives:**  BIO 3303 **AND** BIO 3301, General Entomology and Laboratory BIO 3313 **AND** BIO 3311, Economic Entomology and Laboratory BIO 3302 **AND** BIO 3312, Comparative Anatomy and Laboratory BIO 3322 **AND** BIO 3332, Invertebrate Zoology and Laboratory  BIO 4322 **AND** BIO 4323, Biology of Marine Mammals and Laboratory BIO 4332 **AND** BIO 4342, Animal Histology and Laboratory  BIO 4333, Marine Biology  BIO 4343 **AND** BIO 4341, Animal Embryology and Laboratory BIO 4352 **AND** BIO 4351, Mammology and Laboratory  BIO 4362, Applied Aquaculture  BIO 4363 **AND** BIO 4361, Mammalian Neurobiology and Laboratory BIO 4372, Applied Fisheries  BIO 4382 **AND** BIO 4392, Parasitology and Laboratory BIO 4403, Comparative Vertebrate Reproduction  BIO 4412 **AND** BIO 4411, Herpetology and Laboratory BIO 4423 **AND** BIO 4421, Ornithology and Laboratory BIO 4433, Field Experience in Marine Environments  BIO 4443 **AND** 4441, Comparative Animal Physiology and Laboratory  *An individual course cannot be used as both a required course and an elective.* | 5-7 |
| **Sub-total** | **81** |
| **Total Required Hours:** | **120** |

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POSC 4503. Public Policy, Politics and Power PUBLIC ADMINISTRATION Provides a framework for understanding the fundamentals of the American public policy making process, the political context in which it operates and the theories of power that affect it. Spring, even.

POSC 4513. Disaster Response Operation Management PUBLIC ADMINISTRATION. Roles and responsibilities of public managers and others within the National Incident Management System. May be credited toward Minor in Homeland Security and Disaster Preparedness. Fall-odd.

POSC 4523. Public Personnel Administration  PUBLIC ADMINISTRATION. Policies, methods, and techniques utilized in public personnel. Fall, odd.

POSC 4633. Environmental Law and Administration  PUBLIC ADMINISTRATION. Overview of current environmental law, its administration and enforcement. Spring, even.

POSC 4553. HSDP Capstone PUBLIC ADMINISTRATION. Application of skills and knowledge gained in the minor to the analysis of a specific need or problem and the design of solutions. Teamwork among various specialties with the field. Instructor permission required. Cross listed as DPEM 4553. Spring.