<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Course Description</th>
<th>Prerequisite(s)</th>
<th>Learning Activities</th>
<th>Grade Mode</th>
<th>General Education</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVS 011</td>
<td>Introduction to Poultry Science</td>
<td>3</td>
<td>The mosaic of events that have tied poultry science to other scientific disciplines and poultry to humans. Poultry science techniques and production methods from the time of domestication to the present. One field trip required.</td>
<td></td>
<td>Lecture 3 hour(s)</td>
<td>Letter</td>
<td>Science &amp; Engineering (SE)</td>
</tr>
<tr>
<td>AVS 013</td>
<td>Birds, Humans &amp; the Environment</td>
<td>3</td>
<td>Interrelationships of the worlds of birds and humans. Lectures, discussions, field trips and projects focus on ecology, avian evolution, physiology, reproduction, flight, behavior, folklore, identification, ecotoxicology and conservation. Current environmental issues are emphasized. Half-day field trip.</td>
<td></td>
<td>Lecture 2 hour(s), Discussion 1 hour(s)</td>
<td>Letter</td>
<td>Science &amp; Engineering (SE)</td>
</tr>
<tr>
<td>AVS 014L</td>
<td>Management of Captive Birds</td>
<td>2</td>
<td>One weekly discussion and field trip to study practical captive management (housing, feeding, equipment, marketing, diseases). Visit facilities rearing birds such as commercial parrots, hobbyist exotics, ostrich, raptors, waterfowl, game birds, poultry and pigeons.</td>
<td></td>
<td>Fieldwork 3 hour(s), Lecture/Discussion 1 hour(s)</td>
<td>Letter</td>
<td>Science &amp; Engineering (SE)</td>
</tr>
<tr>
<td>AVS 015L</td>
<td>Captive Raptor Management</td>
<td>2</td>
<td>Hands-on experience handling birds of prey. Students are taught all of the skills required to handle and care for raptors, including husbandry, biology, habitat requirements, cage design, veterinary care, rehabilitation methods, research potential and long-term care requirements. One Saturday fieldtrip.</td>
<td></td>
<td>Laboratory 3 hour(s), Independent Study 3 hour(s)</td>
<td>Letter</td>
<td>Science &amp; Engineering (SE)</td>
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<tr>
<td>AVS 016LA</td>
<td>Raptor Migration &amp; Population Fluctuations</td>
<td>2</td>
<td>Identify raptors: study of effects of weather, crops, agricultural practices on fluctuations in raptor species and numbers. Familiarize with literature; design a project; survey study sites; collect, computerize, analyze data, compare with previous years. Species, observations, emphasis different each quarter. One Saturday field trip.</td>
<td></td>
<td>Fieldwork 3 hour(s), Discussion 1 hour(s)</td>
<td>Letter</td>
<td>Science &amp; Engineering (SE)</td>
</tr>
<tr>
<td>AVS 016LB</td>
<td>Raptor Migration &amp; Population Fluctuations</td>
<td>2</td>
<td>Identify raptors: study of effects of weather, crops, agricultural practices on fluctuations in raptor species and numbers. Familiarize with literature; design a project; survey study sites; collect, computerize, analyze data, compare with previous years. Species, observations, emphasis different each quarter. One Saturday field trip.</td>
<td></td>
<td>Fieldwork 3 hour(s), Discussion 1 hour(s)</td>
<td>Letter</td>
<td>Science &amp; Engineering (SE)</td>
</tr>
<tr>
<td>AVS 016LC</td>
<td>Raptor Migration &amp; Population Fluctuations</td>
<td>2</td>
<td>Identify raptors: study of effects of weather, crops, agricultural practices on fluctuations in raptor species and numbers. Familiarize with literature; design a project; survey study sites; collect, computerize, analyze data, compare with previous years. Species, observations, emphasis different each quarter. One Saturday field trip.</td>
<td></td>
<td>Fieldwork 3 hour(s), Discussion 1 hour(s)</td>
<td>Letter</td>
<td>Science &amp; Engineering (SE)</td>
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<tr>
<td>AVS 092</td>
<td>Internship in the Avian Sciences</td>
<td>1-12</td>
<td>Internship on and off campus in poultry, game birds or exotic bird production, management and research; or in a business, industry, or agency concerned with these entities. Compliance with Internship Approval form essential.</td>
<td>Consent of instructor</td>
<td>Variable 3-36 hour(s)</td>
<td>Letter</td>
<td>Science &amp; Engineering (SE)</td>
</tr>
<tr>
<td>AVS 098</td>
<td>Directed Group Study</td>
<td>1-5</td>
<td>Directed group study.</td>
<td>Consent of instructor</td>
<td>Variable</td>
<td>Pass/No Pass only</td>
<td></td>
</tr>
<tr>
<td>AVS 099</td>
<td>Special Study for Undergraduates</td>
<td>1-5</td>
<td>Special study for undergraduates.</td>
<td>Consent of instructor</td>
<td>Variable 1-5 hour(s)</td>
<td>Pass/No Pass only</td>
<td></td>
</tr>
<tr>
<td>AVS 100</td>
<td>Avian Biology</td>
<td>3</td>
<td>Biology of domesticated poultry, specifically chickens and turkeys. Avian genetics, immunology, reproduction, growth and development, broiler and layer management.</td>
<td>BIS 002A; BIS 002B; ANS 002 preferred</td>
<td>Lecture 3 hour(s)</td>
<td>Letter</td>
<td>Science &amp; Engineering (SE)</td>
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AVS 010 — Avian Sciences (2 units)
Course Description: Introduction to the study of birds, including their biology, classification, and distribution. Emphasis on natural history and conservation. Includes two Saturday field trips.
Prerequisite(s): AVS 011; or consent of instructor.
Learning Activities: Lecture 2 hour(s).
Grade Mode: Letter.

AVS 011 — Raptor Biology (3 units)
Course Description: Study of birds of prey: classification, distribution, habits, migration, unique anatomical and physiological adaptations, natural and captive breeding, health and diseases, environmental concerns, conservation, legal considerations, rehabilitation, and falconry. Includes two Saturday field trips.
Prerequisite(s): BIS 002A; or equivalent.
Learning Activities: Lecture 3 hour(s).
Grade Mode: Letter.
General Education: Science & Engineering (SE); Scientific Literacy (SL).

AVS 012 — Avian Reproduction (2 units)
Course Description: Breeding cycles and reproductive strategies, egg and sperm formation, incubation, sexual development, imprinting, hormonal control of reproductive behavior and song. Species coverage includes wild and companion birds. Course has a physiological orientation.
Prerequisite(s): BIS 002A; BIS 002B.
Learning Activities: Lecture 2 hour(s).
Grade Mode: Letter.
General Education: Science & Engineering (SE); Scientific Literacy (SL).

AVS 013 — Management of Birds (3 units)
Course Description: Captive propagation of birds, including reproduction, genetic management, health, feeding, artificial incubation, artificial insemination, and related legal aspects, including trade and smuggling. Emphasis on exotic species and the role of captive propagation in conservation.
Prerequisite(s): BIS 002A; BIS 002B.
Learning Activities: Lecture 3 hour(s).
Grade Mode: Letter.
General Education: Science & Engineering (SE); Scientific Literacy (SL); Writing Experience (WE).

AVS 014 — Egg Production Management (2 units)
Course Description: Management of commercial table egg flocks as related to environment, nutrition, disease control, economics, housing, equipment, egg processing and raising replacement pullets. Offered in alternate years. One Saturday field trip required.
Prerequisite(s): AVS 011; or consent of instructor.
Learning Activities: Lecture 2 hour(s).
Grade Mode: Letter.
General Education: Science & Engineering (SE).
AVS 197T — Tutoring in Avian Sciences (1-3 units)
Course Description: Tutoring of students in lower division avian sciences courses; weekly conference with instructors in charge of courses; written critiques of teaching procedures.
Prerequisite(s): Consent of instructor.
Learning Activities: Tutorial 1-3 hour(s).
Grade Mode: Pass/No Pass only.

AVS 198 — Directed Group Study (1-5 units)
Course Description: Directed group study.
Prerequisite(s): Consent of instructor.
Learning Activities: Variable 1-5 hour(s).
Enrollment Restriction(s): Restricted to upper division students.
Grade Mode: Pass/No Pass only.

AVS 199 — Special Study for Advanced Undergraduates (1-5 units)
Course Description: Special study for advanced undergraduates.
Learning Activities: Variable 1-5 hour(s).
Grade Mode: Pass/No Pass only.

AVS 203 — Advanced Avian Development & Genomics (1 unit)
Course Description: In consultation with the instructor, students develop a lecture and associated instructional materials, i.e., lesson plan, including justification, reading and presentation and evaluation aids. Topic must complement a topic covered in AVS 103.
Prerequisite(s): AVS 103 (can be concurrent); graduate standing.
Learning Activities: Discussion 1 hour(s).
Grade Mode: Letter.

AVS 290 — Seminar (1 unit)
Course Description: Reports and discussions of recent advances and selected topics of current interest in avian genetics, physiology, nutrition, and poultry technology.
Learning Activities: Seminar 1 hour(s).
Grade Mode: Letter.

AVS 290C — Research Conference (1 unit)
Course Description: Major professors lead research discussions with their graduate students. Research papers are reviewed and project proposals presented and evaluated. Format will combine seminar and discussion.
Prerequisite(s): Consent of instructor; graduate standing.
Learning Activities: Discussion 1 hour(s).
Grade Mode: Satisfactory/Unsatisfactory only.

AVS 297T — Supervised Teaching in Avian Sciences (1-4 units)
Course Description: Tutoring of students in lower, upper division, and graduate courses in Avian Sciences; weekly conference with instructor in charge of course; written critiques of teaching methods in lectures and laboratories.
Prerequisite(s): Consent of instructor; graduate standing.
Learning Activities: Tutorial 1-4 hour(s).
Repeat Credit: May be repeated.
Grade Mode: Satisfactory/Unsatisfactory only.

AVS 298 — Group Study (1-5 units)
Course Description: Group study.
Prerequisite(s): Consent of instructor.
Learning Activities: Variable 1-5 hour(s).
Grade Mode: Letter.

AVS 299 — Research (1-12 units)
Course Description: Research.
Prerequisite(s): Consent of instructor.
Learning Activities: Variable 1-12 hour(s).
Grade Mode: Satisfactory/Unsatisfactory only.