EEOB’s Major Program in Zoology

A major in Zoology is offered by the Department of Evolution, Ecology, and Organismal Biology (EEOB). The major is appropriate for those desiring a degree in the natural sciences and whose main interest is in animals. Zoology is often chosen as a major by pre-professional students (pre-med, pre-vet, pre-dent, etc.). The Zoology Major also satisfies the undergraduate requirements for admission to graduate programs in the biological sciences in universities across the country.

Zoology Major Program:

<table>
<thead>
<tr>
<th>Required Supportive Courses</th>
<th>Core Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>Molecular Genetics</td>
</tr>
<tr>
<td>Math</td>
<td>500</td>
</tr>
<tr>
<td>Chemistry</td>
<td>(or 605 + 606)</td>
</tr>
<tr>
<td>Physics</td>
<td>405.02</td>
</tr>
<tr>
<td>For Bachelor of Science Degree</td>
<td></td>
</tr>
<tr>
<td>113 (H115)</td>
<td>148</td>
</tr>
<tr>
<td>114 (H116)</td>
<td>121</td>
</tr>
<tr>
<td>150</td>
<td>122</td>
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<tr>
<td>151</td>
<td>123</td>
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<tr>
<td>152</td>
<td>251</td>
</tr>
<tr>
<td></td>
<td>252</td>
</tr>
<tr>
<td>For Bachelor of Arts Degree</td>
<td></td>
</tr>
<tr>
<td>113 (H115)</td>
<td>148</td>
</tr>
<tr>
<td>114 (H116)</td>
<td>121</td>
</tr>
<tr>
<td></td>
<td>122</td>
</tr>
<tr>
<td></td>
<td>231</td>
</tr>
</tbody>
</table>
| A minimum of 45 credit hours at or above the 200 level is required for the Zoology Major, including the core courses listed above, which constitute 28 hours. A further 6 hours are required to be taken from courses taught in EEOB (see list below) and should include at least two courses with a laboratory or field component. EEOB 232 and 235 cannot be counted towards the major or minor, and no more than 5 hours of EEOB 293 or 693 (individual study) or 699 (research) may be applied to the major. Up to 16 hours (including Mol Gen 500 or 605 + 606) may be taken in other departments in the College of Biological Sciences, or in courses elsewhere that have a significant biological component and are deemed appropriate by your Zoology advisor. Other than Mol Gen 500 (or 605 + 606) you are not required to take courses outside of EEOB. Departments with offerings potentially of relevance to Zoology include, among others, Animal Science, Anthropology, Earth Sciences, Human Nutrition, Environment and Natural Resources, Psychology, and Physiology and Cell Biology. The minimum acceptable grade in any course counting in the major is C-, and the average grade of courses counting in the major may not be lower than a C (2.00). In the required supportive courses (math, physics, etc.) a D is minimally sufficient.

EEOB offers two undergraduate majors, one in Zoology and the other in Evolution and Ecology. For a description of the Evolution/Ecology major, please visit the EEOB office (rm 300 Aronoff) or the EEOB website (http://eeob.osu.edu).


**Recommendations for pre-professional students.** In addition to the courses required by the Zoology major, the following checked (✓) courses are recommended for those intending to enter medical, veterinary, dental, or optometry school.

<table>
<thead>
<tr>
<th>Course</th>
<th>Pre-med</th>
<th>Pre-vet</th>
<th>Pre-dent</th>
<th>Pre-opt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chem 253 (3rd qtr. organic)</td>
<td>4 hrs</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chem 254 and 255 (organic labs)</td>
<td>3 hrs ea</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Physics 113 or 133 (3rd qtr. physics)</td>
<td>5 hrs</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Anatomy 200 (or 199)</td>
<td>6 hrs</td>
<td></td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Physiology 311 &amp; 312</td>
<td>10 hrs</td>
<td>1 qtr</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Biochemistry 511</td>
<td>5 hrs</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Microbiology 509 or 520 &amp; 521</td>
<td>5-10 hrs</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

**Recommendations for students planning on graduate study.** The Zoology Major satisfies the minimal requirements for most graduate programs in biology, but additional courses might be recommended, depending on the graduate program a student anticipates entering. It is usually wise to take a computer-based course in statistics. Additional chemistry or physics may also be advisable, depending on your intended area. Students planning to attend graduate school should discuss their plans with their Zoology advisor.

**Minor Program:**
The zoology minor requires a minimum of 20 hours. The core requirements are EEOB 400; EEOB 405.01; EEOB 410 or 503.01 (formerly 413.01); and Molecular Genetics 500 (Mol Gen 605 + 606 can replace Mol Gen 500). Additional courses needed to attain the minimum of 20 hours may be elected from other courses taught at the 200 level or higher in EEOB, excluding EEOB 232 and 235.

**Sources of Information:**
ASC counselors in Denney Hall (temporarily in 437 Lincoln) for GEC requirements (phone: 292-6961)  
ASC Career Services: 48 Townshend Hall, 1885 Neil Ave. Mall (292-7055)  
http://careers.osu.edu/

Career Connection, Younkin Success Center, 1640 Neil Avenue, 2nd Floor (688-3898)  
http://www.careerconnection.osu.edu/

Undergraduate Research Office (292-8307) <uro@osu.edu> http://ugresearch.adm.ohio-state.edu  
EEOB Home Page: http://eeob.osu.edu/  
Zoology Coordinating Advisor: Prof. Mitch Masters (292-4602) <masters.2@osu.edu>  
Zoology Honors Advisor: Prof. Meg Daly (247-8412) <daly.66@osu.edu>  
Evolution/Ecology Coordinating Advisor and Honors Advisor: Prof. Dave Stetson (292-5307) <stetson.1@osu.edu>  
Undergraduate Research Coordinator: Prof. Tom Wilson (247-6036) <wilson.1457@osu.edu>  
EEOB Transfer Credit Evaluator: Prof. Thomas Hetherington (292-0832) <hetherington.1@osu.edu>  
Undergraduate Advisors for the College of Biological Sciences: Peggy Strow (292-1704) <strow.1@osu.edu>, Melissa Dennis (292-4347) <dennis.143@osu.edu>  
Stone Laboratory Office: 1314 Kinnear Rd (292-8949), http://ohioseagrant.osu.edu/stonelab/about/  
Getting into graduate school in organismal biology: http://eeb.bio.utk.edu/howtogetintogradschool.asp
**Personal Program:**  Minimum grade of C- required for courses counting toward the Zoology Major.

<table>
<thead>
<tr>
<th>Zoology Courses in EEOB</th>
<th>Additional Relevant Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Course</strong></td>
<td><strong>Course</strong></td>
</tr>
<tr>
<td><strong>Hours</strong></td>
<td><strong>Hours</strong></td>
</tr>
<tr>
<td><strong>Evol ution</strong></td>
<td><strong>Mol Gen 500 (or 605+606 = 6 hrs)</strong></td>
</tr>
<tr>
<td>400</td>
<td>5</td>
</tr>
<tr>
<td><strong>Diversity &amp; Systematics</strong></td>
<td></td>
</tr>
<tr>
<td>405.01</td>
<td></td>
</tr>
<tr>
<td>405.02</td>
<td></td>
</tr>
<tr>
<td><strong>Ecology</strong></td>
<td></td>
</tr>
<tr>
<td>503.01</td>
<td></td>
</tr>
<tr>
<td>(413.01)</td>
<td></td>
</tr>
<tr>
<td><strong>Form &amp; Function</strong></td>
<td></td>
</tr>
<tr>
<td>410</td>
<td></td>
</tr>
<tr>
<td><strong>Cell &amp; Development (or Mol Gen 607+608 = 6 hrs)</strong></td>
<td></td>
</tr>
<tr>
<td>415</td>
<td></td>
</tr>
</tbody>
</table>

**A. Zoology Total**

29 hours minimum

**B. Additional Courses Total**

16 hours maximum

| **Course**                       | **Course**                                                  |
| **Hours**                        | **Hours**                                                  |
| **Mol Gen 500 (or 605+606 = 6 hrs)** | 5                                                           |

**Total (A + B)**

45 hours minimum

Zoology courses in EEOB should include two lab- or field-based courses (in addition to EEOB 405.02). Suitable courses are indicated with a ★ in the following list. If Mol Gen 607 + 608 are used in place of EEOB 415, the hours count as “zoology” hours for purposes of the minimum of 29 hours in zoology.

**Zoology and ASC Advisors.**  After declaring yourself a Zoology Major, you should meet with the EEOB Coordinating Advisor, Dr. Mitch Masters (phone and email under “Sources of Information”), who may assign you another faculty advisor based on your interests and goals. To graduate from OSU, you must fulfill not only the requirements for a major (e.g., Zoology, or Evolution/Ecology) but also the GEC requirements of the Colleges of Arts and Sciences (ASC). You should obtain guidance on the GEC requirements from the ASC counselors in Denney Hall (292-6961) soon after entering ASC. You should also talk with them again as soon as you achieve senior status to go over your progress towards fulfilling the GEC requirements. In addition, you should contact the ASC counselors one quarters prior to your expected graduation to file an application for graduation, which will give you priority in registering for classes your last quarter.
The "Zoology Major Game"

Object:
Acquire supportive and core courses (or equivalents) by graduation.

Key:
- supportive
- core

AWSS = Offered Aut., Win., Spr., Sum.
**Recommended for some pre-professionals

Permissible substitutions:
- Bio 113, 114 ⇐ Bio H115, H116
- Phys 111-113 ⇐ Phys 111-113
- Mol Gen 500 ⇐ Mol Gen 602 & 606
- EEOB 415 ⇐ Mol Gen 607 & 608
## Anticipated EEOB Course Offerings for Majors

### Core Courses in the Zoology Major

<table>
<thead>
<tr>
<th>Course Name and Credit Hours</th>
<th>2009/10</th>
<th>2010/11</th>
<th>2011/12</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Au Wi Sp</td>
<td>Au Wi Sp</td>
<td>Au Wi Sp</td>
</tr>
<tr>
<td>Evolution 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Evolution (honors) 400H</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Diversity and Systematics of Organisms 405.01</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Diversity and Systematics of Organisms 405.02 Laboratory</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Animal Form and Function 410</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Cellular and Developmental Biology 415</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Intro to Ecology 503.01</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Intro to Ecology 503.01H</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Intro to Ecology (honors) 503.02</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
</tbody>
</table>

### Electives for Zoology and Evolution/Ecology Majors

<table>
<thead>
<tr>
<th>Course Name and Credit Hours</th>
<th>2009/10</th>
<th>2010/11</th>
<th>2011/12</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Au Wi Sp</td>
<td>Au Wi Sp</td>
<td>Au Wi Sp</td>
</tr>
<tr>
<td>Local Flora 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Intro to Ornithology 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Dynamics of Dinosaurs 3</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Extinction 3</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Introductory Ethology (animal behavior) 4</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Vertebrate Zoology 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Plants &amp; People 4</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
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<tr>
<td>Marine Biology and Ecology 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Comparative Vertebrate Anatomy 2</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Comparative Endocrinology 3</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
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<tr>
<td>Tropical Field Ecology 3</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Antarctic Marine Ecology &amp; Policy 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Theoretical Ecology I 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
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<tr>
<td>Animal Communication 4</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
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<tr>
<td>Mammalogy 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
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<tr>
<td>Biology of Fishes 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Vertebrate Histology 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Genetic Basis of Evolution 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Neurobiology (neural basis of behavior) 3</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Plankton 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
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<tr>
<td>Ecological Physiology of Animals 4</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
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<tr>
<td>Limnology 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
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<tr>
<td>Conservation Biology 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Plant Population Ecology 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Taxonomy of Vascular Plants 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Physiological Ecology of Plants 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Senior Seminar in Evolution &amp; Ecology 3</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Principles of Biogeography 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Creation &amp; Evol: Differing World Views 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Molecular Evolution 3</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Molecular Ecology 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Theoretical Ecology II 4</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Behavioral Ecology 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
<tr>
<td>Community Ecology &amp; Ecosystems 5</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔ ✔</td>
</tr>
</tbody>
</table>

* = A field/lab course (Zoology requirement)  
◆ = 3rd writing course (GEC requirement)
In addition to the courses in the preceding list, others are offered on an irregular basis (e.g., EEOB 694). These courses will normally be advertised via email or on bulletin boards in Aronoff well ahead of the time for course registration. Students may also undertake individual study (EEOB 293 or 693) or research (EEOB 699) under the direction of a faculty member. Students interested in learning more about these options should contact the Undergraduate Research Coordinator (phone and email under “Sources of Information”). A list of the research interests of the EEOB faculty, which can serve as a guide to potential advisors for individual study or research, is available in the EEOB office and on the department website (see “Sources of Information”).

**Summer Course Offerings and Stone Lab.** Several summer courses are normally offered on the main campus, including the Zoology core courses EEOB 400 and 405. Summer courses are also offered at Stone Laboratory on Gibraltar Island in Lake Erie. These usually include Ichthyology (EEOB 621, 5 hrs), Field Ornithology (EEOB 624, 5 hrs), Field Zoology (EEOB 651, 5 hrs), Limnology (EEOB 652, 5 hrs), Invertebrate Zoology (EEOB 612, 5 hrs), Herpetology (EEOB 622, 5 hrs), and Fish Ecology (EEOB 653, 5 hrs). Additional offerings are scheduled on a year-to-year basis. Those wishing current information should contact the Columbus office of Stone Lab (see “Sources of Information”). All Stone Lab zoology courses count as field/lab courses for the Zoology Major. Courses at the 100 level or below do not count towards the major.

### Non-Zoology Courses of Interest to Zoology Majors

<table>
<thead>
<tr>
<th>Dept</th>
<th>Course and Credit Hours</th>
<th>Number</th>
<th>Qtrs Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Au Wi Sp Su</td>
</tr>
<tr>
<td>Biology</td>
<td>Intro Biology I</td>
<td>5</td>
<td>✓ ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td></td>
<td>Intro Biology II</td>
<td>5</td>
<td>✓ ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td></td>
<td>Honors Biology I</td>
<td>5</td>
<td>H115 ✓ ✓ ✓</td>
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<td></td>
<td>Honors Biology II</td>
<td>5</td>
<td>H116 ✓ ✓ ✓</td>
</tr>
<tr>
<td>Biochem</td>
<td>Intro Bio Chem</td>
<td>5</td>
<td>511 ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td>Chem</td>
<td>General Chem I</td>
<td>5</td>
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<td>General Chem III</td>
<td>5</td>
<td>123 ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td></td>
<td>Intro Organic Chem</td>
<td>3</td>
<td>231 ✓ ✓ ✓ ✓</td>
</tr>
<tr>
<td></td>
<td>Organic Chem I</td>
<td>4</td>
<td>251 ✓ ✓ ✓ ✓</td>
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<td></td>
<td>Organic Chem II</td>
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<td>252 ✓ ✓ ✓ ✓</td>
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<tr>
<td></td>
<td>Organic Chem III</td>
<td>4</td>
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<td>Organic Lab I</td>
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<tr>
<td></td>
<td>Organic Lab II</td>
<td>3</td>
<td>255 ✓ ✓ ✓ ✓</td>
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<tr>
<td>Math</td>
<td>College Algebra</td>
<td>4</td>
<td>148 ✓ ✓ ✓ ✓</td>
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### PERSONAL SCHEDULE OF COURSES

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