Course information:
Credits: 3
Pre-requisites: BIOL 105X and 106X, FISH 101 or permission of instructor

Instructor: Andy Seitz
Office: 204 Arctic Health Research Building
Office hours: 12:00 to 2:00 pm Wednesday
   OR come by my office OR make an appointment
Phone: 474-5254
E-mail: aseitz@ims.uaf.edu

Lecture:
Room: 201 O’Neill Building
Time: TR 2:00 – 3:30 pm
Text:
   Mandatory reading:
   There is no mandatory textbook. Mandatory reading includes, but is not limited to
   (take note of the abbreviations for each source of information. These
   abbreviations are used in the lecture schedule at the end of the handout):

   Commercial Fisheries of Alaska. Alaska Department of Fish and Game, Special
   Publication No. 05-09, Anchorage. Abbreviation: CFA

   Alaska Department of Fish and Game Wildlife Notebook Series. Available at:
   http://www.adfg.state.ak.us/pubs/notebook/notehome.php
   Abbreviation: WNS

   Commercial fisheries information available at:
   http://www.cf.adfg.state.ak.us/ Abbreviation: CF
   (look under the banner for salmon, herring, groundfish and shellfish links)

   Additional resources, including websites, journal articles, and federal and state
   fisheries reports, will be distributed electronically or via hardcopy before the
   corresponding lecture.

Recommended reading:
Species profiles of all fishes found in Alaska’s freshwaters may be found at:
   http://www.sf.adfg.state.ak.us/SARR/surveys/FishList.cfm
And some detailed life histories may be found at:
   http://www.sf.adfg.state.ak.us/SARR/FishDistrib/FDD_fishprofiles.cfm
Text:

Course description and expectations:

This course will provide the students with an introduction to marine and freshwater fishes of Alaska including, evolutionary relationships, biogeography, life-history, ecology, behavior, and importance to people. We will first focus on important recreational, subsistence and commercial fish species of Alaska, including shellfish. We will briefly cover fisheries economics and then turn our attention to lesser known freshwater and marine fish species. The amount of coverage of each of the previously listed topics will vary, depending on what is known about each group of fishes.

Each student is expected to attend every lecture AND participate in class discussion. To accomplish this goal, I will distribute the required reading for each lecture either electronically or via hard copy before lecture. It is absolutely imperative that each student read the assigned readings before the corresponding lecture period (very important!!!) which will enable him or her to better understand the lectures and participate in class discussion.

Grading:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation:</td>
<td>35 (7%)</td>
</tr>
<tr>
<td>Paper I:</td>
<td>50 (10%)</td>
</tr>
<tr>
<td>Presentation I:</td>
<td>25 (5%)</td>
</tr>
<tr>
<td>Paper II:</td>
<td>75 (15%)</td>
</tr>
<tr>
<td>Presentation II:</td>
<td>40 (8%)</td>
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<tr>
<td>Midterm I:</td>
<td>75 (15%)</td>
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<tr>
<td>Midterm II:</td>
<td>75 (15%)</td>
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<tr>
<td>Final:</td>
<td>125 (25%)</td>
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<td>500 (100%)</td>
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</table>

Your grade will be determined using the following scale:
A : 93–100%
A-: 90.0–92.9%
B+: 87.0–89.9%
B : 83.0–86.9%
B-: 80.0–82.9%
C+: 77.0–79.9%
C : 73.0–76.9%
C-: 70.0–72.9%
D+: 67.0–69.9%
D : 63.0–66.9%
D-: 60.0–62.9%
F: <60%
If for any reason, you disagree with your grades, please talk to me.

NOTE ON PARTICIPATION: Participation counts as 7% of your grade. In this class, participation is defined as: 1. Attendance and 2. Contribution to the class by asking questions and/or providing comments and input. I take participation very seriously (both attendance and in-class contribution) because active engagement in the learning process leads to a better education.

Course policies:

Attendance and in-class contribution are VERY important in learning the course material. If you are not able to attend class, you must inform me BEFORE your planned absence. Unexcused absences will result in deductions from your participation grade.

All assignments are due at the beginning of the indicated class period. Late assignments will be docked 10% of the total exercise point value for each day late (including weekends) and missed exams will be assigned a zero score.

If you cannot take an exam, turn in an assignment, or attend class for a legitimate reason, it is your responsibility to contact me prior to the date in question in order not to receive a penalty. With the exception of emergencies, make-up exams or late assignment requests will only be honored if a legitimate reason is provided to me in writing at least one week prior to that date.

Please familiarize yourself with the UAF Student Code of Conduct: (http://www.uaf.edu/catalog/current/academics/regs3.html). The following are guidelines regarding academic integrity in FISH/BIOL 288:

1. Students will not collaborate on any quizzes, in-class exams, or take-home exams that contribute to their grade in a course, unless the course instructor grants permission. Only those materials permitted by the instructor may be used to assist in quizzes and examinations.
2. Students will not represent the work of others as their own. A student will attribute the source of information not original with himself or herself (direct quotes or paraphrases) in compositions, theses, and other reports.
3. No work submitted for one course may be submitted for credit in another course without the explicit approval of both instructors.

Any violations will result in automatic failure of the course.

Disabilities Services: During the whole course the instructor and the laboratory teaching assistant will closely work with the Office of Disabilities Services to provide reasonable accommodations to students with disabilities. For questions or concerns, please contact the instructor or the UAF Office of Disabilities Services (phone: (907) 474-7043).
**Lecture Schedule:**

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Week</th>
<th>Date</th>
<th>Day</th>
<th>Lecture Topics</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1.1</td>
<td>22 Jan</td>
<td>Thur</td>
<td>Intro to AK fishes and environments</td>
<td>ADFG web</td>
</tr>
<tr>
<td>2</td>
<td>2.1</td>
<td>27 Jan</td>
<td>Tues</td>
<td>AK fisheries, ichthyology</td>
<td>ADFG web</td>
</tr>
<tr>
<td>3</td>
<td>2.2</td>
<td>29 Jan</td>
<td>Thur</td>
<td>Invertebrates and shellfish</td>
<td>CFA,WNS,CF</td>
</tr>
<tr>
<td>4</td>
<td>3.1</td>
<td>3 Feb</td>
<td>Tues</td>
<td>Sharks, skates and rays</td>
<td>CFA,WNS,CF</td>
</tr>
<tr>
<td>5</td>
<td>3.2</td>
<td>5 Feb</td>
<td>Thur</td>
<td>Herring and other clupeoids</td>
<td>CFA,WNS,CF</td>
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<tr>
<td>6</td>
<td>4.1</td>
<td>10 Feb</td>
<td>Tues</td>
<td>Pacific salmon</td>
<td>CFA,WNS,CF</td>
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<tr>
<td>7</td>
<td>4.2</td>
<td>12 Feb</td>
<td>Thur</td>
<td>Pacific salmon, rainbows, cutthroats</td>
<td>CFA,WNS,CF</td>
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<tr>
<td>8</td>
<td>5.1</td>
<td>17 Feb</td>
<td>Tues</td>
<td>Char, grayling, review</td>
<td>WNS</td>
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<td>9</td>
<td>5.2</td>
<td>19 Feb</td>
<td>Thur</td>
<td><strong>Midterm I</strong></td>
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<tr>
<td>10</td>
<td>6.1</td>
<td>24 Feb</td>
<td>Tues</td>
<td>Whitefishes, smelts</td>
<td>WNS</td>
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<tr>
<td>11</td>
<td>6.2</td>
<td>26 Feb</td>
<td>Thur</td>
<td>Pike, burbot, blackfish (Sutton)</td>
<td>WNS</td>
</tr>
<tr>
<td>12</td>
<td>7.1</td>
<td>3 Mar</td>
<td>Tues</td>
<td>Presentations</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>7.2</td>
<td>5 Mar</td>
<td>Thur</td>
<td>Presentations</td>
<td></td>
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<tr>
<td>14</td>
<td>8.1</td>
<td>10 Mar</td>
<td>Tues</td>
<td>Spring Break</td>
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<tr>
<td>15</td>
<td>8.2</td>
<td>12 Mar</td>
<td>Thur</td>
<td></td>
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<tr>
<td>16</td>
<td>9.1</td>
<td>17 Mar</td>
<td>Tues</td>
<td>Gadids</td>
<td>CFA, CF</td>
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<tr>
<td>17</td>
<td>9.2</td>
<td>19 Mar</td>
<td>Thur</td>
<td>Sablefish, Atka mackerel, lingcod</td>
<td>CFA,WNS,CF</td>
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<tr>
<td>18</td>
<td>10.1</td>
<td>24 Mar</td>
<td>Tues</td>
<td>Rockfishes</td>
<td>CFA,WNS,CF</td>
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<tr>
<td>19</td>
<td>10.2</td>
<td>26 Mar</td>
<td>Thur</td>
<td>Flatfishes</td>
<td>CFA,WNS,CF</td>
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<tr>
<td>20</td>
<td>11.1</td>
<td>31 Mar</td>
<td>Tues</td>
<td>Comm. fish. landings and economics</td>
<td>CFA,WNS,CF</td>
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<tr>
<td>21</td>
<td>11.2</td>
<td>2 Apr</td>
<td>Thur</td>
<td>Sport fisheries and subsistence</td>
<td>WNS</td>
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<tr>
<td>22</td>
<td>12.1</td>
<td>7 Apr</td>
<td>Tues</td>
<td><strong>Midterm II</strong></td>
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<tr>
<td>23</td>
<td>12.2</td>
<td>9 Apr</td>
<td>Thur</td>
<td>Others – FW, anadromous, inshore</td>
<td>WNS</td>
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<tr>
<td>24</td>
<td>13.1</td>
<td>14 Apr</td>
<td>Tues</td>
<td>Inshore and offshore demersals</td>
<td>WNS</td>
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<tr>
<td>25</td>
<td>13.2</td>
<td>16 Apr</td>
<td>Thur</td>
<td>Offshore pelagic and visitors</td>
<td>WNS</td>
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<tr>
<td>26</td>
<td>14.1</td>
<td>21 Apr</td>
<td>Tues</td>
<td>Presentations</td>
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<tr>
<td>27</td>
<td>14.2</td>
<td>23 Apr</td>
<td>Thur</td>
<td>Presentations</td>
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<tr>
<td>28</td>
<td>15.1</td>
<td>28 Apr</td>
<td>Tues</td>
<td>Presentations</td>
<td></td>
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<tr>
<td>29</td>
<td>15.2</td>
<td>30 Apr</td>
<td>Thur</td>
<td>Review, questions, evaluations</td>
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<td>30</td>
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<tr>
<td>31</td>
<td></td>
<td>7 May</td>
<td>Thur</td>
<td><strong>Final examination</strong></td>
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