**GENERAL INFORMATION**

**LECTURES:**
- Wednesdays 1000-1120
  - HMSC* .................. Distance Ed. Studio (Room 904-34).
  - Main Campus ...... Kidder Hall, Room 274.
- Fridays 1000-1120
  - Main Campus ...... Nash Hall, Room 204.
    * Hatfield Marine Science Center

**LABORATORIES:**
- Fridays 1400-1550 ................... Withycombe Hall 205

**INSTRUCTOR:**
- David Sampson, HMSC Room 900-229, ext. 7-0386.

**EMAIL**
- David.Sampson@OregonState.edu

**OFFICE HOURS:**
- Wednesdays 1300-1700 in HMSC room 900-229,
  at other times by appointment.

**WEBSITE URL:**
- http://oregonstate.edu/instruct/fw599/sampson
  Also, check the OSU Blackboard site for announcements.

**TEXT:**
- None is required.

**OBJECTIVES:**

1. To explore in detail some of the techniques used for assessing exploited populations of fish and other biological resources.

2. To provide students with an understanding of the assumptions and mathematics underlying stock assessment techniques.

3. To illustrate applications of stock assessment methods through the development and use of computer spreadsheet programs.

**GRADING:**
- Class Participation.................................. 10%;
- Homework Assignments (5) .......................... 50%;
- Final Exam ......................................... 40%.
# Course Schedule

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<tr>
<th>Week #</th>
<th>Wednesdays</th>
<th>Fridays</th>
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<tr>
<td>1</td>
<td>01/09 - Introduction &amp; Overview</td>
<td>01/11 - Basic Fishery Science Equations</td>
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<td>2</td>
<td>01/16 - Fitting Models to Data</td>
<td>01/18 - Fitting Models to Data (cont.)</td>
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<td>3</td>
<td>01/23 - Using Catch-at-Age Data</td>
<td>01/25 - Virtual Population Analysis</td>
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<td>4</td>
<td>01/30 - Cohort Analysis</td>
<td>02/01 - The Catch-at-Age Matrix</td>
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<td>02/06 - &quot;Tuning&quot; an Analysis</td>
<td>02/08 - Statistical Catch-at-Age</td>
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<td>02/13 - Guest lecturer (TBA, David in Seattle)</td>
<td>02/15 - Statistical Catch-at-Age (cont.)</td>
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<td>02/20 - Statistical Catch-at-Age (cont.)</td>
<td>02/22 - Catch-at-Age Extensions</td>
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<td>8</td>
<td>02/27 - Catch-Effort Methods</td>
<td>02/29 - Catch-Effort Methods (cont.)</td>
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<td>9</td>
<td>03/05 - Biomass Dynamics Models</td>
<td>03/07 - Biomass Dynamics Models (cont.)</td>
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<td>03/12 - Management Advice</td>
<td>03/14 - Management Advice (cont.)</td>
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<td>Tuesday 03/18 - Final Exam, in Class @ 0930</td>
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The following books are on reserve at the Valley Library on the main campus and at the Guin Library at the Hatfield Marine Science Center. When requesting a reserve book from the Valley Library, ask for it by its call number.


Recommended readings are indicated below by an arrowhead symbol.

General Background


Basic Fisheries Models


Fitting Models to Data


Stock Assessments from Catch-at-Age Data


Stock Assessments from Catch-at-Age Data (continued)


Assembling the Catch-at-Age Matrix: Sampling and Data Collection


Statistical Catch-at-Age Methods

**RECOMMENDED & SUPPLEMENTAL READING** (continued)  

**Catch-Effort Methods**

**Biomass Dynamics Models**
Fishery Management Advice


