

DATE: 01-22-2019  
TIME: 20:10:11

UNIVERSITY OF WASHINGTON STUDENT RECORDS SYSTEM  
DETAILED CURRICULUM REPORT  
Seattle CAMPUS

REPORT: SR21010-R-01 K  
PAGE: 955

COLLEGE : D - Environment  
DEPARTMENT: AQUA & FISH SCI

| COURSE<br>CURRIC NUM     | TITLE                                                                        | EFFECTIVE | QUARTERS   | QUARTER<br>CREDITS | OVER D<br>-ALL U<br>MAX P                          | D<br>GRD<br>SYS | D<br>E<br>HYPH | S H F<br>U N E<br>M R E | V<br>L I<br>P & N<br>A S W | E E<br>L C<br>M S<br>T P | W<br>R<br>Q<br>T<br>N<br>G | RESPONS<br>COURSE | JOINT<br>COURSES   | O<br>M<br>I<br>T  |
|--------------------------|------------------------------------------------------------------------------|-----------|------------|--------------------|----------------------------------------------------|-----------------|----------------|-------------------------|----------------------------|--------------------------|----------------------------|-------------------|--------------------|-------------------|
| FISH 101                 | WATER AND SOCIETY<br>Water and Society                                       | SPR/2010  | - AUT/9999 | 5.0                | .                                                  | .               | .              | .                       | .                          | Y                        | Y                          | .                 | .                  | .                 |
|                          |                                                                              |           |            |                    | LAST UPDT: 2/10/10                                 |                 |                |                         |                            |                          |                            |                   |                    |                   |
| COMMENT:CHG TITLES, DESC |                                                                              |           |            |                    |                                                    |                 |                |                         |                            |                          |                            |                   |                    |                   |
| FISH 161                 | INTRO BIOL I<br>INTRODUCTION TO BIOLOGY I                                    | SPR/2010  | - AUT/9999 | 5.0                | .                                                  | .               | .              | .                       | .                          | Y                        | .                          | .                 | FISH 161 ESRM 161  | .                 |
|                          |                                                                              |           |            |                    | LAST UPDT:12/11/12 APPROVED: 8/19/08               |                 |                |                         |                            |                          |                            |                   |                    |                   |
| COMMENT:MOVE COLLEGE     |                                                                              |           |            |                    |                                                    |                 |                |                         |                            |                          |                            |                   |                    |                   |
| FISH 162                 | INTRO BIOL II<br>INTRODUCTION TO BIOLOGY II                                  | SPR/2010  | - AUT/9999 | 5.0                | .                                                  | .               | .              | .                       | .                          | Y                        | .                          | .                 | ESRM 162 ESRM 162  | .                 |
|                          |                                                                              |           |            |                    | LAST UPDT:12/11/12 APPROVED: 8/19/08               |                 |                |                         |                            |                          |                            |                   |                    |                   |
| COMMENT:MOVE COLLEGE     |                                                                              |           |            |                    |                                                    |                 |                |                         |                            |                          |                            |                   |                    |                   |
| FISH 210                 | FISH RESEARCH MTHDS<br>RESEARCH METHODS IN AQUATIC AND FISHERY SCIENCES      | SPR/2010  | - AUT/9999 | 5.0                | .                                                  | .               | .              | Y                       | .                          | Y                        | .                          | .                 | .                  | .                 |
|                          |                                                                              |           |            |                    | LAST UPDT:12/11/12                                 |                 |                |                         |                            |                          |                            |                   |                    |                   |
| COMMENT:MOVE COLLEGE     |                                                                              |           |            |                    | FEE TYPE:1 \$50.00 BUDGET:069602 REV OBJ CD:943081 |                 |                |                         |                            |                          |                            |                   |                    |                   |
| FISH 221                 | MICROBE ECOL & EVOL<br>Ecology and Evolution of the Microbe                  | SPR/2010  | - AUT/9999 | 5.0                | .                                                  | .               | .              | Y                       | .                          | Y                        | .                          | .                 | .                  | .                 |
|                          |                                                                              |           |            |                    | LAST UPDT: 7/25/14 APPROVED: 9/20/07               |                 |                |                         |                            |                          |                            |                   |                    |                   |
| COMMENT:MOVE COLLEGE     |                                                                              |           |            |                    |                                                    |                 |                |                         |                            |                          |                            |                   |                    |                   |
| FISH 230                 | ECONOMICS FISH&OCN<br>Economics of Fisheries and Oceans                      | SUM/2014  | - AUT/9999 | 5.0                | .                                                  | .               | .              | .                       | .                          | Y                        | Y                          | .                 | Y                  | FISH 230 ECON 230 |
|                          |                                                                              |           |            |                    | LAST UPDT: 6/04/14 APPROVED: 2/18/14               |                 |                |                         |                            |                          |                            |                   |                    |                   |
| COMMENT:ADD JT STATUS    |                                                                              |           |            |                    |                                                    |                 |                |                         |                            |                          |                            |                   |                    |                   |
| FISH 250                 | MARINE BIOLOGY<br>Marine Biology                                             | SPR/2010  | - AUT/9999 | 3.0-05.0           | 5.0                                                | .               | .              | .                       | Y                          | .                        | Y                          | .                 | FISH 250 OCEAN 250 | .                 |
|                          |                                                                              |           |            |                    | LAST UPDT: 7/23/15 APPROVED: 2/21/01               |                 |                |                         |                            |                          |                            |                   |                    |                   |
| COMMENT:MOVE COLLEGE     |                                                                              |           |            |                    | FEE TYPE:1 \$75.00 BUDGET:069602 REV OBJ CD:943081 |                 |                |                         |                            |                          |                            |                   |                    |                   |
| FISH 260                 | RECRTNL FISHERIES<br>Recreational Fisheries: Science, Management, and Policy | SPR/2014  | - AUT/9999 | 3.0-05.0           | .                                                  | .               | .              | .                       | .                          | Y                        | Y                          | .                 | .                  | .                 |
|                          |                                                                              |           |            |                    | LAST UPDT: 1/22/14 APPROVED: 1/21/14               |                 |                |                         |                            |                          |                            |                   |                    |                   |
| FISH 261                 | REC FISH SEMINAR<br>Recreational Fisheries Seminar                           | SPR/2017  | - AUT/9999 | 1.0                | .                                                  | .               | .              | .                       | .                          | .                        | .                          | .                 | .                  | .                 |
|                          |                                                                              |           |            |                    | LAST UPDT:11/29/16 APPROVED:11/15/16               |                 |                |                         |                            |                          |                            |                   |                    |                   |

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DEPARTMENT: AQUA & FISH SCI

| COURSE<br>CURRIC NUM                                                      | TITLE                                                                   | EFFECTIVE  | QUARTERS | QUARTER<br>CREDITS | OVER D<br>-ALL U<br>MAX P | GRD<br>SYS | D<br>E<br>HYPH | S H F<br>U N E<br>M R E | V<br>L I<br>P & N<br>A S W | E E<br>L E C<br>M S N | W<br>R<br>Q T<br>P R G | RESPONS<br>COURSE | JOINT<br>COURSES | O<br>M<br>I<br>T |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------|------------|----------|--------------------|---------------------------|------------|----------------|-------------------------|----------------------------|-----------------------|------------------------|-------------------|------------------|------------------|
| FISH 270                                                                  | AQUATIC ECOPHYSLOGY<br>Aquatic Ecophysiology                            | AUT/2018 - | AUT/9999 | 5.0                | .                         | .          | .              | .                       | .                          | Y                     | .                      | FISH 270          | OCEAN 270        | .                |
| LAST UPDT: 4/25/18 APPROVED:12/16/14 MARBIO 270                           |                                                                         |            |          |                    |                           |            |                |                         |                            |                       |                        |                   |                  |                  |
| FISH 290                                                                  | SCI WRITING & COMM<br>Scientific Writing and Communication              | AUT/2014 - | SUM/2019 | 3.0                | .                         | .          | .              | .                       | .                          | .                     | .                      | .                 | .                | .                |
| LAST UPDT: 1/10/19 APPROVED: 3/19/13                                      |                                                                         |            |          |                    |                           |            |                |                         |                            |                       |                        |                   |                  |                  |
| COMMENT:14-16 RECOMMENDED CHG                                             |                                                                         |            |          |                    |                           |            |                |                         |                            |                       |                        |                   |                  |                  |
| FISH 290                                                                  | SCI WRITING & COMM<br>Scientific Writing and Communication              | AUT/2019 - | AUT/9999 | 3.0                | .                         | .          | .              | .                       | .                          | .                     | .                      | .                 | .                | .                |
| LAST UPDT: 1/10/19 APPROVED: 3/19/13                                      |                                                                         |            |          |                    |                           |            |                |                         |                            |                       |                        |                   |                  |                  |
| FISH 296                                                                  | STUDY ABROAD<br>Study Abroad: Aquatic and Fishery Sciences              | SPR/2010 - | AUT/9999 | 1.0-15.0           | 30.0                      | .          | .              | .                       | .                          | Y                     | .                      | .                 | .                | .                |
| LAST UPDT: 2/10/10 APPROVED: 1/31/05                                      |                                                                         |            |          |                    |                           |            |                |                         |                            |                       |                        |                   |                  |                  |
| COMMENT:MOVE COLLEGE                                                      |                                                                         |            |          |                    |                           |            |                |                         |                            |                       |                        |                   |                  |                  |
| FISH 300                                                                  | EXPLORE OPPS MARINE<br>Exploring Opportunities in Marine Science        | AUT/2018 - | AUT/9999 | 1.0                | .                         | CR/NC      | .              | .                       | .                          | .                     | .                      | OCEAN 300         | MARBIO300        | .                |
| LAST UPDT: 4/25/18 APPROVED: 2/18/14 OCEAN 300                            |                                                                         |            |          |                    |                           |            |                |                         |                            |                       |                        |                   |                  |                  |
| FISH 310                                                                  | BIOL OF SHELLFISHES<br>Biology of Shellfishes                           | AUT/2012 - | AUT/9999 | 5.0                | .                         | .          | .              | .                       | .                          | Y                     | .                      | .                 | .                | .                |
| LAST UPDT: 7/12/12 APPROVED: 9/14/89                                      |                                                                         |            |          |                    |                           |            |                |                         |                            |                       |                        |                   |                  |                  |
| COMMENT:12-14 DESC CHG                                                    |                                                                         |            |          |                    |                           |            |                |                         |                            |                       |                        |                   |                  |                  |
| FISH 311                                                                  | BIOLOGY OF FISHES<br>Biology of Fishes                                  | AUT/2012 - | AUT/9999 | 3.0-05.0           | 5.0                       | .          | .              | .                       | Y                          | .                     | Y                      | FISH 311          | BIOL 311         | .                |
| LAST UPDT: 2/11/13                                                        |                                                                         |            |          |                    |                           |            |                |                         |                            |                       |                        |                   |                  |                  |
| COMMENT:12-14 DESC CHG FEE TYPE:1 \$50.00 BUDGET:029357 REV OBJ CD:943081 |                                                                         |            |          |                    |                           |            |                |                         |                            |                       |                        |                   |                  |                  |
| FISH 312                                                                  | FISH ECOLOGY<br>Fisheries Ecology                                       | WIN/2017 - | AUT/9999 | 3.0-05.0           | .                         | .          | .              | .                       | Y                          | .                     | Y                      | .                 | .                | .                |
| LAST UPDT:12/02/16 APPROVED: 9/14/89                                      |                                                                         |            |          |                    |                           |            |                |                         |                            |                       |                        |                   |                  |                  |
| FEE TYPE:1 \$50.00 BUDGET:069602 REV OBJ CD:943081                        |                                                                         |            |          |                    |                           |            |                |                         |                            |                       |                        |                   |                  |                  |
| FISH 323                                                                  | CONS & MGT AQUA RES<br>Conservation and Management of Aquatic Resources | AUT/2012 - | AUT/9999 | 5.0                | .                         | .          | .              | .                       | .                          | Y                     | .                      | .                 | .                | .                |
| LAST UPDT: 7/12/12                                                        |                                                                         |            |          |                    |                           |            |                |                         |                            |                       |                        |                   |                  |                  |
| COMMENT:12-14 DESC CHG                                                    |                                                                         |            |          |                    |                           |            |                |                         |                            |                       |                        |                   |                  |                  |

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DEPARTMENT: AQUA & FISH SCI

| COURSE<br>CURRIC NUM | TITLE                                                              | EFFECTIVE           | QUARTERS | QUARTER<br>CREDITS | OVER D<br>-ALL U<br>MAX P                                                                  | D<br>GRD<br>SYS | D<br>E<br>HYPH | S H F<br>U N E<br>M R E | V<br>L I<br>P & N<br>A S W | E E<br>L C<br>M S<br>T P | W<br>R<br>Q<br>T<br>S<br>N<br>G | RESPONS<br>COURSE | JOINT<br>COURSES | O<br>M<br>I<br>T |
|----------------------|--------------------------------------------------------------------|---------------------|----------|--------------------|--------------------------------------------------------------------------------------------|-----------------|----------------|-------------------------|----------------------------|--------------------------|---------------------------------|-------------------|------------------|------------------|
| FISH 324             | AQUATIC PHYSIOLOGY<br>Aquatic Animal Physiology and Reproduction   | WIN/2019 - AUT/9999 | 3.0-05.0 | 5.0                | .                                                                                          | .               | .              | . . Y                   | . . Y                      | . . . .                  | .                               |                   |                  | .                |
|                      |                                                                    |                     |          |                    | LAST UPDT:11/14/18 APPROVED: 3/29/93<br>FEE TYPE:1 \$50.00 BUDGET:069602 REV OBJ CD:943081 |                 |                |                         |                            |                          |                                 |                   |                  |                  |
| FISH 328             | FOR-FISH INTERACT<br>Forestry-Fisheries Interactions               | SPR/2010 - AUT/9999 | 4.0      | .                  | .                                                                                          | .               | .              | . . Y                   | . . Y                      | . . . .                  |                                 | ESRM 328          | ESRM 328         | .                |
|                      |                                                                    |                     |          |                    | LAST UPDT: 6/25/15 APPROVED: 2/23/89<br>FEE TYPE:1 \$48.00 BUDGET:069393 REV OBJ CD:943081 |                 |                |                         |                            |                          |                                 |                   |                  |                  |
| FISH 330             | CLIMATE CHG MAR ECO<br>Climate Change Impacts on Marine Ecosystems | SPR/2010 - AUT/9999 | 5.0      | .                  | .                                                                                          | .               | .              | . . .                   | . . Y                      | . . . .                  |                                 | FISH 330          | ENVIR 330        | .                |
|                      |                                                                    |                     |          |                    | LAST UPDT: 2/10/10 APPROVED: 1/15/08                                                       |                 |                |                         |                            |                          |                                 |                   |                  |                  |
| FISH 340             | GENETS & MOLEC ECOL<br>Genetics and Molecular Ecology              | SPR/2010 - AUT/9999 | 5.0      | .                  | .                                                                                          | .               | .              | . . .                   | . . Y                      | . . . .                  |                                 | FISH 340          | BIOL 340         | .                |
|                      |                                                                    |                     |          |                    | LAST UPDT: 2/10/10 APPROVED: 1/30/03                                                       |                 |                |                         |                            |                          |                                 |                   |                  |                  |
| FISH 350             | MARINE COASTAL ECOL<br>MARINE ECOLOGY OF COASTAL SYSTEMS           | WIN/2012 - AUT/9999 | 3.0      | .                  | .                                                                                          | .               | .              | . . .                   | . . Y                      | . . . .                  |                                 | FISH 350          | SMEA 350         | .                |
|                      |                                                                    |                     |          |                    | LAST UPDT:12/11/12 APPROVED:10/25/04                                                       |                 |                |                         |                            |                          |                                 |                   |                  |                  |
| FISH 370             | MARINE EVOLN BIOL<br>Marine Evolutionary Biology                   | AUT/2018 - AUT/9999 | 5.0      | .                  | .                                                                                          | .               | .              | . . .                   | . . Y                      | . . . .                  |                                 | FISH 370          | OCEAN 370        | .                |
|                      |                                                                    |                     |          |                    | LAST UPDT: 4/25/18 APPROVED:12/16/14                                                       |                 |                |                         |                            |                          |                                 |                   |                  |                  |
| FISH 404             | FISH DISEASES<br>Diseases of Aquatic Animals                       | SPR/2010 - AUT/9999 | 5.0      | .                  | .                                                                                          | .               | .              | . . Y                   | . . Y                      | . . . .                  |                                 |                   |                  | .                |
|                      |                                                                    |                     |          |                    | LAST UPDT: 7/17/15 APPROVED: 9/14/89<br>FEE TYPE:1 \$50.00 BUDGET:069602 REV OBJ CD:943081 |                 |                |                         |                            |                          |                                 |                   |                  |                  |
| FISH 406             | PARASITE ECOLOGY<br>Parasite Ecology                               | AUT/2017 - AUT/9999 | 5.0      | .                  | .                                                                                          | .               | .              | . . .                   | . . Y                      | . . . .                  |                                 |                   |                  | .                |
|                      |                                                                    |                     |          |                    | LAST UPDT: 6/19/17 APPROVED: 6/06/17                                                       |                 |                |                         |                            |                          |                                 |                   |                  |                  |
| FISH 415             | FISH PHYSIOLOGY<br>FISH PHYSIOLOGY                                 | SPR/2010 - AUT/9999 | 5.0      | .                  | .                                                                                          | .               | .              | . . .                   | . . Y                      | . . . .                  |                                 |                   |                  | .                |
|                      |                                                                    |                     |          |                    | LAST UPDT: 2/10/10 APPROVED: 5/10/73                                                       |                 |                |                         |                            |                          |                                 |                   |                  |                  |
| COMMENT:MOVE COLLEGE |                                                                    |                     |          |                    |                                                                                            |                 |                |                         |                            |                          |                                 |                   |                  |                  |

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| DEPARTMENT: AQUA & FISH SCI |                                                           |                     |                    |                                                    |                | O                       |                        |                                   |                   |                  |             |
|-----------------------------|-----------------------------------------------------------|---------------------|--------------------|----------------------------------------------------|----------------|-------------------------|------------------------|-----------------------------------|-------------------|------------------|-------------|
| COURSE<br>CURRIC NUM        | TITLE                                                     | EFFECTIVE QUARTERS  | QUARTER<br>CREDITS | OVER D<br>-ALL U<br>MAX P                          | D GRD<br>E SYS | S H F<br>U N E<br>M R E | V L I<br>P & N C M S N | E E W<br>L E C Q T<br>S W T P R G | RESPONS<br>COURSE | JOINT<br>COURSES | M<br>I<br>T |
| FISH 420                    | ECOL MARINE FISHES ECOLOGY OF MARINE FISHES               | SPR/2011 - AUT/9999 | 3.0                | .                                                  | .              | . . .                   | . . Y . . . .          |                                   |                   |                  | .           |
|                             |                                                           |                     |                    | LAST UPDT:12/11/12 APPROVED: 9/17/96               |                |                         |                        |                                   |                   |                  |             |
|                             |                                                           |                     |                    | COMMENT:EMAIL PREQ CHG                             |                |                         |                        |                                   |                   |                  |             |
| FISH 423                    | AQUA INVASION ECOL Aquatic Invasion Ecology               | SPR/2010 - AUT/9999 | 4.0                | .                                                  | .              | . . .                   | . . . . . Y .          |                                   |                   |                  | .           |
|                             |                                                           |                     |                    | LAST UPDT: 2/10/10 APPROVED: 9/20/07               |                |                         |                        |                                   |                   |                  |             |
|                             |                                                           |                     |                    | COMMENT:MOVE COLLEGE                               |                |                         |                        |                                   |                   |                  |             |
| FISH 424                    | BIOL CULT AQ ORG Biology and Culture of Aquatic Organisms | SPR/2010 - AUT/9999 | 5.0                | .                                                  | .              | . . .                   | . . Y . . . .          |                                   |                   |                  | .           |
|                             |                                                           |                     |                    | LAST UPDT: 2/10/10 APPROVED:10/27/05               |                |                         |                        |                                   |                   |                  |             |
|                             |                                                           |                     |                    | COMMENT:MOVE COLLEGE                               |                |                         |                        |                                   |                   |                  |             |
| FISH 427                    | TROPICAL MAR BIOL Tropical Marine Biology                 | WIN/2019 - AUT/9999 | 5.0                | .                                                  | .              | . . .                   | . . Y . . . .          |                                   |                   |                  | .           |
|                             |                                                           |                     |                    | LAST UPDT:11/16/18 APPROVED:11/13/18               |                |                         |                        |                                   |                   |                  |             |
| FISH 428                    | STREAM RESTORATION Stream and Watershed Restoration       | SPR/2010 - AUT/9999 | 5.0                | .                                                  | .              | . . Y                   | . . Y . . . .          |                                   |                   |                  | .           |
|                             |                                                           |                     |                    | LAST UPDT: 7/17/15 APPROVED:11/18/96               |                |                         |                        |                                   |                   |                  |             |
|                             |                                                           |                     |                    | FEE TYPE:1 \$50.00 BUDGET:069602 REV OBJ CD:943081 |                |                         |                        |                                   |                   |                  |             |
| FISH 437                    | FISH OCEANOGRAPHY Fisheries Oceanography                  | AUT/2014 - AUT/9999 | 4.0                | .                                                  | .              | . . .                   | . . . . .              |                                   |                   |                  | .           |
|                             |                                                           |                     |                    | LAST UPDT: 7/25/14 APPROVED:10/30/07               |                |                         |                        |                                   |                   |                  |             |
|                             |                                                           |                     |                    | COMMENT:14-16 RECOMMENDED CHG                      |                |                         |                        |                                   |                   |                  |             |
| FISH 441                    | ENVIR PHYSIOLOGY Integrative Environmental Physiology     | SPR/2010 - AUT/9999 | 3.0-05.0           | 5.0                                                | .              | .                       | . . .                  | . . Y . . . .                     |                   |                  | .           |
|                             |                                                           |                     |                    | LAST UPDT: 5/25/12 APPROVED: 9/16/08               |                |                         |                        |                                   |                   |                  |             |
|                             |                                                           |                     |                    | COMMENT:MOVE COLLEGE                               |                |                         |                        |                                   |                   |                  |             |
| FISH 444                    | CONSERVATION GENET Conservation Genetics                  | AUT/2012 - AUT/9999 | 5.0                | .                                                  | .              | . . .                   | . . Y . . . .          |                                   |                   |                  | .           |
|                             |                                                           |                     |                    | LAST UPDT: 1/31/13 APPROVED: 6/03/71               |                |                         |                        |                                   |                   |                  |             |
|                             |                                                           |                     |                    | COMMENT:12-14 DESC CHG, RECOMMENDED                |                |                         |                        |                                   |                   |                  |             |
| FISH 447                    | WATERSHED ECOL Watershed Ecology and Management           | SPR/2017 - AUT/9999 | 3.0                | .                                                  | .              | . . Y                   | . . Y . . . .          |                                   | FISH 447 ESRM     | 447              | .           |
|                             |                                                           |                     |                    | LAST UPDT: 3/03/17 APPROVED: 6/21/99               |                |                         |                        |                                   |                   |                  |             |
|                             |                                                           |                     |                    | FEE TYPE:1 \$50.00 BUDGET:069602 REV OBJ CD:943081 |                |                         |                        |                                   |                   |                  |             |

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| COURSE<br>CURRIC | NUM | TITLE                                                                                  | EFFECTIVE  | QUARTERS | QUARTER<br>CREDITS | OVER D                                                                                      |   | GRD | D | S H F | V | L I | E E | W             | RESPONS   | JOINT     | O |
|------------------|-----|----------------------------------------------------------------------------------------|------------|----------|--------------------|---------------------------------------------------------------------------------------------|---|-----|---|-------|---|-----|-----|---------------|-----------|-----------|---|
|                  |     |                                                                                        |            |          |                    | -ALL                                                                                        | U |     |   |       |   |     |     |               |           |           |   |
|                  |     |                                                                                        |            |          |                    | MAX                                                                                         | P | SYS | D | HYPH  | M | R   | E   | A S W T P R G | COURSE    | COURSES   | I |
| FISH             | 448 | WATERSHED ECOL LAB<br>Watershed Ecology and Management Lab                             | SPR/2017 - | AUT/9999 | 2.0                |                                                                                             | . | .   | . | .     | Y | .   | .   | .             | FISH 448  | ESRM 448  | . |
|                  |     |                                                                                        |            |          |                    | LAST UPDT:12/07/17 APPROVED: 2/21/17<br>FEE TYPE:1 \$70.00 BUDGET:069602 REV OBJ CD:943081  |   |     |   |       |   |     |     |               |           |           |   |
| FISH             | 450 | SAL BEHAV LIFE HIST<br>Salmonid Behavior and Life History                              | SPR/2010 - | AUT/9999 | 3.0-05.0           | 5.0                                                                                         | . | .   | . | .     | Y | .   | .   | Y             | .         | .         | . |
|                  |     |                                                                                        |            |          |                    | LAST UPDT: 3/10/15 APPROVED: 6/29/78<br>FEE TYPE:1 \$125.00 BUDGET:069602 REV OBJ CD:943081 |   |     |   |       |   |     |     |               |           |           |   |
| FISH             | 452 | MARINE GIS<br>Marine Geospatial Information Science                                    | AUT/2017 - | AUT/9999 | 3.0                |                                                                                             | . | .   | . | .     | . | .   | Y   | .             | OCEAN 452 | OCEAN 452 | . |
|                  |     |                                                                                        |            |          |                    | LAST UPDT: 4/25/17 APPROVED: 3/28/01                                                        |   |     |   |       |   |     |     |               |           |           |   |
| FISH             | 453 | GEOSP TL PTRN ANLYS<br>Geospatial Pattern Analysis and Geostatistics                   | SPR/2010 - | AUT/9999 | 3.0                |                                                                                             | . | .   | . | .     | . | .   | Y   | .             | OCEAN 453 | OCEAN 453 | . |
|                  |     |                                                                                        |            |          |                    | LAST UPDT: 7/18/16 APPROVED: 3/28/01                                                        |   |     |   |       |   |     |     |               |           |           |   |
| FISH             | 454 | ECOLOGICAL MODELING<br>Ecological Modeling                                             | AUT/2018 - | AUT/9999 | 5.0                |                                                                                             | . | .   | . | .     | . | .   | Y   | .             | FISH 454  | Q SCI 454 | . |
|                  |     |                                                                                        |            |          |                    | LAST UPDT: 9/18/18 APPROVED: 1/31/05                                                        |   |     |   |       |   |     |     |               |           |           |   |
| FISH             | 455 | FISH WILDLIFE TOXIC<br>Fish and Wildlife Toxicology                                    | SPR/2010 - | AUT/9999 | 3.0-05.0           |                                                                                             | . | .   | . | .     | Y | .   | .   | Y             | FISH 455  | ESRM 457  | . |
|                  |     |                                                                                        |            |          |                    | LAST UPDT:11/02/15 APPROVED: 9/22/97<br>FEE TYPE:1 \$50.00 BUDGET:069602 REV OBJ CD:943081  |   |     |   |       |   |     |     |               |           |           |   |
| FISH             | 458 | MODEL/ESTIM RES MGT<br>Modeling and Estimation in Conservation and Resource Management | AUT/2018 - | AUT/9999 | 4.0                |                                                                                             | . | .   | . | .     | . | .   | Y   | .             | FISH 458  | Q SCI 458 | . |
|                  |     |                                                                                        |            |          |                    | LAST UPDT: 9/18/18 APPROVED: 5/29/75                                                        |   |     |   |       |   |     |     |               |           |           |   |
| FISH             | 461 | RES ECON MGMT PLCY<br>Resource Economics for Management and Policy                     | AUT/2015 - | AUT/9999 | 4.0                |                                                                                             | . | .   | . | .     | . | .   | Y   | .             | .         | .         | . |
|                  |     |                                                                                        |            |          |                    | LAST UPDT:12/29/14 APPROVED:12/16/14                                                        |   |     |   |       |   |     |     |               |           |           |   |
| FISH             | 464 | ARCTIC MARINE ECOL<br>Arctic Marine Vertebrate Ecology                                 | WIN/2013 - | AUT/9999 | 4.0                |                                                                                             | . | .   | . | .     | . | .   | Y   | .             | .         | .         | . |
|                  |     |                                                                                        |            |          |                    | LAST UPDT: 1/02/13 APPROVED:10/16/12                                                        |   |     |   |       |   |     |     |               |           |           |   |
| FISH             | 473 | LIMNOLOGY<br>Limnology                                                                 | AUT/2010 - | AUT/9999 | 3.0                |                                                                                             | . | .   | . | .     | . | .   | Y   | .             | FISH 473  | BIOL 473  | . |
|                  |     |                                                                                        |            |          |                    | LAST UPDT:12/29/10                                                                          |   |     |   |       |   |     |     |               |           |           |   |
|                  |     |                                                                                        |            |          |                    | COMMENT:10-12 PREQ CHG                                                                      |   |     |   |       |   |     |     |               |           |           |   |

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DEPARTMENT: AQUA & FISH SCI

| COURSE<br>CURRIC NUM  | TITLE                                                                        | EFFECTIVE | QUARTERS   | QUARTER<br>CREDITS | OVER D<br>-ALL U<br>MAX P                           | D<br>GRD<br>SYS | D<br>E<br>HYPH | S H F<br>U N E<br>M R E | V<br>L I<br>P & N<br>A S W | E E<br>L C<br>M S<br>T P | W<br>R<br>Q<br>T<br>N<br>G | RESPONS<br>COURSE  | JOINT<br>COURSES | O<br>M<br>I<br>T |
|-----------------------|------------------------------------------------------------------------------|-----------|------------|--------------------|-----------------------------------------------------|-----------------|----------------|-------------------------|----------------------------|--------------------------|----------------------------|--------------------|------------------|------------------|
| FISH 474              | LIMNOLOGY LAB<br>Limnology Laboratory                                        | SPR/2010  | - AUT/9999 | 2.0                | .                                                   | .               | .              | . . Y                   | . . Y                      | . . . .                  | .                          | FISH 474 BIOL 474  | .                |                  |
| COMMENT:MOVE COLLEGE  |                                                                              |           |            |                    | LAST UPDT: 3/12/15 APPROVED: 3/29/05                |                 |                |                         |                            |                          |                            | CEE                | 463              |                  |
|                       |                                                                              |           |            |                    | FEE TYPE:1 \$125.00 BUDGET:069602 REV OBJ CD:943081 |                 |                |                         |                            |                          |                            |                    |                  |                  |
| FISH 475              | MARINE MAMMALOGY<br>Marine Mammalogy                                         | SPR/2010  | - AUT/9999 | 3.0-05.0           | .                                                   | .               | .              | . . Y                   | . . Y                      | . . . .                  | .                          |                    |                  |                  |
| COMMENT:MOVE COLLEGE  |                                                                              |           |            |                    | LAST UPDT: 7/23/15 APPROVED: 5/29/75                |                 |                |                         |                            |                          |                            |                    |                  |                  |
|                       |                                                                              |           |            |                    | FEE TYPE:1 \$50.00 BUDGET:069602 REV OBJ CD:943081  |                 |                |                         |                            |                          |                            |                    |                  |                  |
| FISH 477              | MARINE BIOL SEMINAR<br>Seminar in Marine Biology                             | WIN/2011  | - AUT/9999 | 3.0                | .                                                   | .               | .              | . . .                   | . . Y                      | . . . .                  | .                          | OCEAN 477 BIOL 477 | .                |                  |
|                       |                                                                              |           |            |                    | LAST UPDT: 2/14/11 APPROVED: 9/22/10                |                 |                |                         |                            |                          |                            | OCEAN              | 477              |                  |
| FISH 478              | SUSTAINABLE FISH<br>Topics in Sustainable Fisheries                          | SPR/2010  | - AUT/9999 | 3.0                | 9.0                                                 | .               | .              | . . .                   | . Y Y                      | . . . .                  | .                          | FISH 478 ENVIR 478 | .                |                  |
| COMMENT:MOVE COLLEGE  |                                                                              |           |            |                    | LAST UPDT: 2/10/10 APPROVED:11/30/00                |                 |                |                         |                            |                          |                            | BIOL               | 478              |                  |
| FISH 479              | MARINE BIO RESEARCH<br>Research in Marine Biology                            | AUT/2018  | - AUT/9999 | 1.0-15.0           | 15.0                                                | .               | .              | . . Y                   | . . . .                    | . . . .                  | .                          | FISH 479 BIOL 479  | .                |                  |
|                       |                                                                              |           |            |                    | LAST UPDT: 4/25/18 APPROVED:10/21/08                |                 |                |                         |                            |                          |                            | OCEAN              | 479              |                  |
|                       |                                                                              |           |            |                    | FEE TYPE:1 \$90.00 BUDGET:029357 REV OBJ CD:943081  |                 |                |                         |                            |                          |                            | MARBIO             | 479              |                  |
| FISH 480              | HUMAN DIM FISH MGMT<br>Human Dimensions of Fishery Management                | WIN/2012  | - AUT/9999 | 3.0                | .                                                   | .               | .              | . . .                   | . Y Y                      | . . . .                  | .                          | FISH 480 SMEA 480  | .                |                  |
| COMMENT:CHG JT STATUS |                                                                              |           |            |                    | LAST UPDT: 9/07/11 APPROVED: 5/01/89                |                 |                |                         |                            |                          |                            |                    |                  |                  |
| FISH 489              | PEER TEACING AFS<br>Peer Teaching Assistants in Aquatic and Fishery Sciences | SPR/2013  | - AUT/9999 | 1.0-05.0           | 10.0                                                | .               | CR/NC          | .                       | . . .                      | . . . .                  | .                          |                    |                  |                  |
|                       |                                                                              |           |            |                    | LAST UPDT: 3/21/13 APPROVED: 3/19/13                |                 |                |                         |                            |                          |                            |                    |                  |                  |
| FISH 490              | AQUATIC MICROBIOL<br>Aquatic Microbiology                                    | SPR/2010  | - AUT/9999 | 3.0-05.0           | .                                                   | .               | .              | . . .                   | . . Y                      | . . . .                  | .                          | FISH 490 MICROM490 | .                |                  |
| COMMENT:MOVE COLLEGE  |                                                                              |           |            |                    | LAST UPDT: 8/05/14                                  |                 |                |                         |                            |                          |                            |                    |                  |                  |
| FISH 491              | RESEARCH IN ALASKA<br>Aquatic Ecological Research in Alaska                  | SPR/2010  | - AUT/9999 | 12.0               | .                                                   | .               | .              | . . Y                   | . . Y                      | . . . .                  | .                          |                    |                  |                  |
| COMMENT:MOVE COLLEGE  |                                                                              |           |            |                    | LAST UPDT: 7/23/15 APPROVED: 2/21/01                |                 |                |                         |                            |                          |                            |                    |                  |                  |
|                       |                                                                              |           |            |                    | FEE TYPE:1 \$300.00 BUDGET:069602 REV OBJ CD:943081 |                 |                |                         |                            |                          |                            |                    |                  |                  |

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| COURSE<br>CURRIC NUM                                | TITLE                                                                 | EFFECTIVE           | QUARTERS | QUARTER<br>CREDITS | OVER D<br>-ALL U<br>MAX P | D<br>GRD<br>SYS | D<br>E<br>HYPH | S H F<br>U N E<br>M R E | V<br>L I<br>P & N<br>A S W | E E<br>L C M<br>T P R | W<br>R<br>G | RESPONS<br>COURSE | JOINT<br>COURSES | O<br>M<br>I<br>T |
|-----------------------------------------------------|-----------------------------------------------------------------------|---------------------|----------|--------------------|---------------------------|-----------------|----------------|-------------------------|----------------------------|-----------------------|-------------|-------------------|------------------|------------------|
| FISH 492                                            | MAR BIRD MAMM<br>Ecology and Conservation of Marine Birds and Mammals | AUT/2018 - AUT/9999 | 9.0-15.0 | 15.0               | .                         | .               | .              | . . Y                   | . . Y                      | . . . .               | .           | FHL 492           | MARBI0492        | .                |
| LAST UPDT: 4/25/18 APPROVED:12/16/14                |                                                                       |                     |          |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| FEE TYPE:1 \$150.00 BUDGET:098456 REV OBJ CD:943081 |                                                                       |                     |          |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| FISH 493                                            | CAPSTONE 1 PROPOSAL<br>Capstone 1: Proposal                           | AUT/2017 - AUT/9999 | 1.0      | .                  | .                         | .               | .              | . . . .                 | . . . . .                  | .                     | .           |                   |                  | .                |
| LAST UPDT: 8/17/17 APPROVED: 2/19/08                |                                                                       |                     |          |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| FISH 494                                            | CAPSTONE 2 RESEARCH<br>Capstone 2: Research                           | SPR/2018 - AUT/9999 | 3.0      | .                  | .                         | 12              | .              | . . . .                 | . . . . .                  | .                     | .           |                   |                  | .                |
| LAST UPDT: 1/16/18 APPROVED: 2/21/01                |                                                                       |                     |          |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| FISH 495                                            | CAPSTONE 3 SYNTHESIS<br>Capstone 3: Research Synthesis                | SPR/2018 - AUT/9999 | 3.0      | .                  | .                         | 22              | .              | . . . .                 | . . . . .                  | .                     | .           |                   |                  | .                |
| LAST UPDT: 9/25/17 APPROVED:11/29/95                |                                                                       |                     |          |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| FISH 496                                            | ADV STUDY ABROAD<br>Study Abroad: Aquatic and Fishery Sciences        | SPR/2010 - AUT/9999 | 1.0-15.0 | 30.0               | .                         | .               | .              | . . . .                 | . . Y                      | . . . .               | .           |                   |                  | .                |
| LAST UPDT: 2/10/10 APPROVED: 1/31/05                |                                                                       |                     |          |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| COMMENT:MOVE COLLEGE                                |                                                                       |                     |          |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| FISH 497                                            | SPEC TOPICS AFS<br>Special Topics in Aquatic and Fishery Sciences     | SPR/2010 - AUT/9999 | 1.0-15.0 | 15.0               | .                         | .               | .              | . . . .                 | . . Y                      | . . . .               | .           |                   |                  | .                |
| LAST UPDT: 3/10/14 APPROVED:11/29/95                |                                                                       |                     |          |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| COMMENT:MOVE COLLEGE, 3-10-14 RMV FEE               |                                                                       |                     |          |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| FISH 498                                            | INTERNSHIP<br>Internship/Experiential Learning                        | SPR/2010 - AUT/9999 | 1.0-15.0 | 15.0               | Y                         | CR/NC           | .              | . . . .                 | . . . . .                  | .                     | .           |                   |                  | .                |
| LAST UPDT: 2/10/10 APPROVED: 1/28/88                |                                                                       |                     |          |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| COMMENT:MOVE COLLEGE                                |                                                                       |                     |          |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| FISH 499                                            | UNDERGRAD RESEARCH<br>Undergraduate Research                          | SPR/2010 - AUT/9999 | 1.0-15.0 | 15.0               | Y                         | .               | .              | . . . .                 | . . . . .                  | .                     | .           |                   |                  | .                |
| LAST UPDT: 2/10/10                                  |                                                                       |                     |          |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| COMMENT:MOVE COLLEGE                                |                                                                       |                     |          |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| FISH 502                                            | MARINE GIS<br>Marine Geospatial Information Science                   | AUT/2017 - AUT/9999 | 3.0      | .                  | .                         | .               | .              | . . . .                 | . . . . .                  | .                     | .           | OCEAN 502         | OCEAN 502        | .                |
| LAST UPDT: 4/25/17 APPROVED:10/20/09                |                                                                       |                     |          |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| FISH 503                                            | GEOSPTL PTRRN ANALYS<br>Geospatial Pattern Analysis and Geostatistics | SPR/2010 - AUT/9999 | 3.0      | .                  | .                         | .               | .              | . . . .                 | . . . . .                  | .                     | .           | OCEAN 503         | OCEAN 503        | .                |
| LAST UPDT: 2/10/10 APPROVED:10/20/09                |                                                                       |                     |          |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |
| COMMENT:FIX COLELGE                                 |                                                                       |                     |          |                    |                           |                 |                |                         |                            |                       |             |                   |                  |                  |

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DEPARTMENT: AQUA & FISH SCI

| COURSE<br>CURRIC NUM | TITLE                                                                               | EFFECTIVE  | QUARTERS | QUARTER<br>CREDITS | OVER D<br>-ALL U<br>MAX P            | D<br>GRD<br>SYS | D<br>E<br>HYPH | S H F<br>U N E<br>M R E | V<br>L I<br>P & N<br>A S W | E E<br>L C<br>M S<br>T P | W<br>R<br>Q<br>T<br>N<br>G | RESPONS<br>COURSE | JOINT<br>COURSES | O<br>M<br>I<br>T |
|----------------------|-------------------------------------------------------------------------------------|------------|----------|--------------------|--------------------------------------|-----------------|----------------|-------------------------|----------------------------|--------------------------|----------------------------|-------------------|------------------|------------------|
| FISH 507             | TOPICS FISHERIES<br>Special Topics in Fisheries                                     | SPR/2010 - | AUT/9999 | 1.0-15.0           | 15.0 Y                               | .               | .              | .                       | .                          | .                        | .                          | .                 | .                | .                |
|                      |                                                                                     |            |          |                    | LAST UPDT: 2/10/10                   |                 |                |                         |                            |                          |                            |                   |                  |                  |
|                      |                                                                                     |            |          |                    | COMMENT:MOVE COLLEGE                 |                 |                |                         |                            |                          |                            |                   |                  |                  |
| FISH 510             | TOPICS: GENET & PHYS<br>Current Topics in Genetics and Physiology                   | AUT/2012 - | AUT/9999 | 1.0-05.0           | 15.0 .                               | .               | .              | .                       | .                          | .                        | .                          | .                 | .                | .                |
|                      |                                                                                     |            |          |                    | LAST UPDT: 7/12/12 APPROVED: 8/16/99 |                 |                |                         |                            |                          |                            |                   |                  |                  |
|                      |                                                                                     |            |          |                    | COMMENT:12-14 DESC CHG               |                 |                |                         |                            |                          |                            |                   |                  |                  |
| FISH 511             | TOPICS: EVOL & ECOL<br>Current Topics in Evolution, Ecology, and Behavior           | AUT/2012 - | AUT/9999 | 1.0-05.0           | 15.0 .                               | .               | .              | .                       | .                          | .                        | .                          | .                 | .                | .                |
|                      |                                                                                     |            |          |                    | LAST UPDT: 7/12/12 APPROVED: 8/16/99 |                 |                |                         |                            |                          |                            |                   |                  |                  |
|                      |                                                                                     |            |          |                    | COMMENT:12-14 DESC CHG               |                 |                |                         |                            |                          |                            |                   |                  |                  |
| FISH 512             | TOPICS: QUANT SCI<br>Current Topics in Quantitative Science                         | AUT/2012 - | AUT/9999 | 1.0-05.0           | 15.0 .                               | .               | .              | .                       | .                          | .                        | .                          | .                 | .                | .                |
|                      |                                                                                     |            |          |                    | LAST UPDT: 7/12/12 APPROVED: 8/16/99 |                 |                |                         |                            |                          |                            |                   |                  |                  |
|                      |                                                                                     |            |          |                    | COMMENT:12-14 DESC CHG               |                 |                |                         |                            |                          |                            |                   |                  |                  |
| FISH 513             | TOPICS: MNGT & CNSRV<br>Current Topics in Management, Conservation, and Restoration | AUT/2012 - | AUT/9999 | 1.0-05.0           | 15.0 .                               | .               | .              | .                       | .                          | .                        | .                          | .                 | .                | .                |
|                      |                                                                                     |            |          |                    | LAST UPDT: 7/12/12 APPROVED: 8/16/99 |                 |                |                         |                            |                          |                            |                   |                  |                  |
|                      |                                                                                     |            |          |                    | COMMENT:12-14 DESC CHG               |                 |                |                         |                            |                          |                            |                   |                  |                  |
| FISH 514             | TOPICS: AQUACULTURE<br>Current Topics Aquaculture, Utilization, and Pathology       | AUT/2012 - | AUT/9999 | 1.0-05.0           | 15.0 .                               | .               | .              | .                       | .                          | .                        | .                          | .                 | .                | .                |
|                      |                                                                                     |            |          |                    | LAST UPDT: 7/12/12 APPROVED: 8/16/99 |                 |                |                         |                            |                          |                            |                   |                  |                  |
|                      |                                                                                     |            |          |                    | COMMENT:12-14 DESC CHG               |                 |                |                         |                            |                          |                            |                   |                  |                  |
| FISH 520             | ADV ECOL MAR FISH<br>Advanced Ecology of Marine Fishes                              | SPR/2010 - | AUT/9999 | 4.0                | .                                    | .               | .              | .                       | .                          | .                        | .                          | .                 | .                | .                |
|                      |                                                                                     |            |          |                    | LAST UPDT:12/12/12 APPROVED: 1/20/09 |                 |                |                         |                            |                          |                            |                   |                  |                  |
|                      |                                                                                     |            |          |                    | COMMENT:MOVE COLLEGE                 |                 |                |                         |                            |                          |                            |                   |                  |                  |
| FISH 521             | RSRCH PROP WRITING<br>Research Proposal Writing for Graduate Students               | SPR/2010 - | AUT/9999 | 4.0                | .                                    | .               | .              | .                       | .                          | .                        | .                          | .                 | .                | .                |
|                      |                                                                                     |            |          |                    | LAST UPDT: 2/10/10 APPROVED:11/24/98 |                 |                |                         |                            |                          |                            |                   |                  |                  |
|                      |                                                                                     |            |          |                    | COMMENT:MOVE COLLEGE                 |                 |                |                         |                            |                          |                            |                   |                  |                  |
| FISH 522             | HOT TOPICS IN AFS<br>Hot Topics in Aquatic and Fishery Sciences                     | SPR/2010 - | AUT/9999 | 2.0                | .                                    | CR/NC           | .              | .                       | .                          | .                        | .                          | .                 | .                | .                |
|                      |                                                                                     |            |          |                    | LAST UPDT: 2/10/10 APPROVED: 6/28/73 |                 |                |                         |                            |                          |                            |                   |                  |                  |
|                      |                                                                                     |            |          |                    | COMMENT:MOVE COLLEGE                 |                 |                |                         |                            |                          |                            |                   |                  |                  |

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DEPARTMENT: AQUA & FISH SCI

| COURSE<br>CURRIC NUM   | TITLE                                                                     | EFFECTIVE  | QUARTERS | QUARTER<br>CREDITS | OVER D<br>-ALL U<br>MAX P            | GRD<br>SYS | D<br>E<br>HYPH | S H F<br>U N E<br>M R E | V<br>L I<br>P & N<br>A S W | E E<br>L C Q<br>T P R G | W<br>R<br>S N | RESPONS<br>COURSE | JOINT<br>COURSES | O<br>M<br>I<br>T |
|------------------------|---------------------------------------------------------------------------|------------|----------|--------------------|--------------------------------------|------------|----------------|-------------------------|----------------------------|-------------------------|---------------|-------------------|------------------|------------------|
| FISH 526               | ADV AQUA ECOLOGY<br>Ecology of Aquatic Ecosystems                         | SPR/2010 - | AUT/9999 | 3.0                | .                                    | .          | .              | .                       | .                          | .                       | .             | .                 | .                | .                |
|                        |                                                                           |            |          |                    | LAST UPDT: 2/10/10 APPROVED: 3/13/97 |            |                |                         |                            |                         |               |                   |                  |                  |
| COMMENT:MOVE COLLEGE   |                                                                           |            |          |                    |                                      |            |                |                         |                            |                         |               |                   |                  |                  |
| FISH 530               | BIOENERGETICS<br>Application of Bioenergetics Models to Aquatic Food Webs | SPR/2010 - | AUT/9999 | 4.0                | .                                    | .          | .              | .                       | .                          | .                       | .             | .                 | .                | .                |
|                        |                                                                           |            |          |                    | LAST UPDT: 2/10/10 APPROVED: 9/25/02 |            |                |                         |                            |                         |               |                   |                  |                  |
| COMMENT:MOVE COLLEGE   |                                                                           |            |          |                    |                                      |            |                |                         |                            |                         |               |                   |                  |                  |
| FISH 531               | AQUATIC FOOD WEBS<br>Aquatic Food Web Processes                           | SPR/2010 - | AUT/9999 | 4.0                | .                                    | .          | .              | .                       | .                          | .                       | .             | .                 | .                | .                |
|                        |                                                                           |            |          |                    | LAST UPDT: 2/10/10 APPROVED: 1/19/10 |            |                |                         |                            |                         |               |                   |                  |                  |
| FISH 537               | FISH OCEANOGRAPHY<br>Fisheries Oceanography                               | SPR/2010 - | AUT/9999 | 4.0                | .                                    | .          | .              | .                       | .                          | .                       | .             | .                 | .                | .                |
|                        |                                                                           |            |          |                    | LAST UPDT: 7/25/14 APPROVED:10/30/07 |            |                |                         |                            |                         |               |                   |                  |                  |
| COMMENT:MOVE COLLEGE   |                                                                           |            |          |                    |                                      |            |                |                         |                            |                         |               |                   |                  |                  |
| FISH 538               | FISH ACOUSTICS<br>Fisheries Acoustics                                     | AUT/2013 - | AUT/9999 | 3.0-05.0           | .                                    | .          | .              | .                       | .                          | .                       | .             | .                 | .                | .                |
|                        |                                                                           |            |          |                    | LAST UPDT: 4/16/13 APPROVED: 4/16/13 |            |                |                         |                            |                         |               |                   |                  |                  |
| FISH 539               | US FISH MGT POL<br>U.S. Fisheries Management and Policy                   | WIN/2014 - | AUT/9999 | 3.0                | .                                    | .          | .              | .                       | .                          | .                       | .             | SMEA 539          | SMEA 539         | .                |
|                        |                                                                           |            |          |                    | LAST UPDT: 7/23/15 APPROVED: 9/17/13 |            |                |                         |                            |                         |               |                   |                  |                  |
| FISH 541               | ENVIR PHYSIOLOGY<br>Integrative Environmental Physiology                  | SPR/2010 - | AUT/9999 | 3.0-05.0           | 5.0                                  | .          | .              | .                       | .                          | .                       | .             | .                 | .                | .                |
|                        |                                                                           |            |          |                    | LAST UPDT: 5/25/12 APPROVED: 9/16/08 |            |                |                         |                            |                         |               |                   |                  |                  |
| COMMENT:MOVE COLLEGE   |                                                                           |            |          |                    |                                      |            |                |                         |                            |                         |               |                   |                  |                  |
| FISH 545               | APPL POP GENETICS<br>Applied Population Genetics                          | SPR/2010 - | AUT/9999 | 3.0                | .                                    | .          | .              | .                       | .                          | .                       | .             | .                 | .                | .                |
|                        |                                                                           |            |          |                    | LAST UPDT: 2/10/10 APPROVED: 8/19/08 |            |                |                         |                            |                         |               |                   |                  |                  |
| COMMENT:MOVE COLLEGE   |                                                                           |            |          |                    |                                      |            |                |                         |                            |                         |               |                   |                  |                  |
| FISH 546               | BIOINFORMATICS<br>Bioinformatics for Environmental Sciences               | SPR/2010 - | AUT/9999 | 3.0                | .                                    | .          | .              | .                       | .                          | .                       | .             | .                 | .                | .                |
|                        |                                                                           |            |          |                    | LAST UPDT: 2/10/10 APPROVED:10/20/09 |            |                |                         |                            |                         |               |                   |                  |                  |
| FISH 547               | RIVER ECOL & MNGMT<br>River Ecology and Watershed Management              | AUT/2014 - | AUT/9999 | 3.0                | .                                    | .          | .              | .                       | .                          | .                       | .             | .                 | .                | .                |
|                        |                                                                           |            |          |                    | LAST UPDT: 7/25/14 APPROVED:10/27/89 |            |                |                         |                            |                         |               |                   |                  |                  |
| COMMENT:14-16 DESC CHG |                                                                           |            |          |                    |                                      |            |                |                         |                            |                         |               |                   |                  |                  |

DATE: 01-22-2019  
TIME: 20:10:11

UNIVERSITY OF WASHINGTON STUDENT RECORDS SYSTEM  
DETAILED CURRICULUM REPORT  
Seattle CAMPUS

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COLLEGE : D - Environment  
DEPARTMENT: AQUA & FISH SCI

| COURSE<br>CURRIC NUM | TITLE                                                                       | EFFECTIVE  | QUARTERS | QUARTER<br>CREDITS | OVER D<br>-ALL U<br>MAX P | GRD<br>SYS | D<br>E<br>HYPH    | S H F<br>U N E<br>M R E | V<br>L I<br>P & N<br>A S W | E E<br>L C M<br>T P R | W<br>R<br>Q T<br>S N<br>G | RESPONS<br>COURSE | JOINT<br>COURSES | O<br>M<br>I<br>T |
|----------------------|-----------------------------------------------------------------------------|------------|----------|--------------------|---------------------------|------------|-------------------|-------------------------|----------------------------|-----------------------|---------------------------|-------------------|------------------|------------------|
| FISH 552             | INTRO R PROGRAMMING<br>Introduction to R Programming for Natural Scientists | AUT/2011 - | AUT/9999 | 2.0                | .                         | CR/NC      | .                 | .                       | .                          | .                     | .                         | .                 | .                | .                |
|                      |                                                                             |            |          |                    | LAST UPDT: 9/17/12        |            | APPROVED: 5/17/11 |                         |                            |                       |                           |                   |                  |                  |
| FISH 553             | ADV R PROGRAMMING<br>Advanced R Programming for Natural Scientists          | AUT/2013 - | AUT/9999 | 2.0                | .                         | CR/NC      | .                 | .                       | .                          | .                     | .                         | .                 | .                | .                |
|                      |                                                                             |            |          |                    | LAST UPDT: 8/22/13        |            | APPROVED: 5/17/11 |                         |                            |                       |                           |                   |                  |                  |
|                      |                                                                             |            |          |                    | COMMENT:CHG CREDITS       |            |                   |                         |                            |                       |                           |                   |                  |                  |
| FISH 554             | GRAPHICS IN R<br>Beautiful Graphics in R                                    | WIN/2014 - | AUT/9999 | 2.0                | .                         | .          | .                 | .                       | .                          | .                     | .                         | .                 | .                | .                |
|                      |                                                                             |            |          |                    | LAST UPDT: 6/06/13        |            | APPROVED: 6/04/13 |                         |                            |                       |                           |                   |                  |                  |
| FISH 556             | SPATIAL MODELING<br>Spatio-temporal Models for Ecologists                   | SPR/2018 - | AUT/9999 | 5.0                | .                         | .          | .                 | .                       | .                          | .                     | .                         | .                 | .                | .                |
|                      |                                                                             |            |          |                    | LAST UPDT: 1/08/18        |            | APPROVED:12/19/17 |                         |                            |                       |                           |                   |                  |                  |
| FISH 557             | EST POP PARAMETERS<br>Estimation of Population Parameters                   | SPR/2010 - | AUT/9999 | 4.0                | .                         | .          | .                 | .                       | .                          | .                     | .                         | .                 | .                | .                |
|                      |                                                                             |            |          |                    | LAST UPDT: 2/10/10        |            |                   |                         |                            |                       |                           |                   |                  |                  |
|                      |                                                                             |            |          |                    | COMMENT:MOVE COLLEGE      |            |                   |                         |                            |                       |                           |                   |                  |                  |
| FISH 558             | DECISION ANALYSIS<br>Decision Analysis in Natural Resource Management       | SPR/2010 - | AUT/9999 | 4.0                | .                         | .          | .                 | .                       | .                          | .                     | .                         | .                 | .                | .                |
|                      |                                                                             |            |          |                    | LAST UPDT: 2/10/10        |            |                   |                         |                            |                       |                           |                   |                  |                  |
|                      |                                                                             |            |          |                    | COMMENT:MOVE COLLEGE      |            |                   |                         |                            |                       |                           |                   |                  |                  |
| FISH 559             | NATURAL RES COMPUTE<br>Numerical Computing for the Natural Resources        | SPR/2010 - | AUT/9999 | 5.0                | .                         | .          | .                 | .                       | .                          | .                     | .                         | .                 | .                | .                |
|                      |                                                                             |            |          |                    | LAST UPDT: 2/10/10        |            | APPROVED: 3/17/09 |                         |                            |                       |                           |                   |                  |                  |
|                      |                                                                             |            |          |                    | COMMENT:MOVE COLLEGE      |            |                   |                         |                            |                       |                           |                   |                  |                  |
| FISH 560             | MULTIVARIATE STATS<br>Applied Multivariate Statistics for Ecologists        | SPR/2010 - | AUT/9999 | 4.0                | .                         | .          | .                 | .                       | .                          | .                     | .                         | .                 | .                | .                |
|                      |                                                                             |            |          |                    | LAST UPDT: 2/10/10        |            | APPROVED: 8/23/07 |                         |                            |                       |                           |                   |                  |                  |
|                      |                                                                             |            |          |                    | COMMENT:MOVE COLLEGE      |            |                   |                         |                            |                       |                           |                   |                  |                  |
| FISH 561             | RES ECON MGMT PLCY<br>Resource Economics for Management and Policy          | AUT/2015 - | AUT/9999 | 4.0                | .                         | .          | .                 | .                       | .                          | .                     | .                         | .                 | .                | .                |
|                      |                                                                             |            |          |                    | LAST UPDT:12/29/14        |            | APPROVED:12/16/14 |                         |                            |                       |                           |                   |                  |                  |
| FISH 562             | ECOSYS BSD MGT<br>Ecosystem Based Fisheries Management                      | SPR/2015 - | AUT/9999 | 2.0                | .                         | .          | .                 | .                       | .                          | .                     | .                         | .                 | .                | .                |
|                      |                                                                             |            |          |                    | LAST UPDT: 2/18/15        |            | APPROVED: 2/18/15 |                         |                            |                       |                           |                   |                  |                  |

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| DEPARTMENT: AQUA & FISH SCI |                                                                       |                     |                    |                           |                 | O<br>V<br>E<br>R<br>L<br>O<br>W<br>I<br>N<br>G | E<br>C<br>M<br>S<br>N | E<br>C<br>M<br>S<br>N | W<br>R<br>T<br>P<br>R<br>G | R<br>E<br>S<br>P<br>O<br>N<br>S<br>E | J<br>O<br>I<br>N<br>T<br>C<br>O<br>U<br>R<br>S<br>E<br>S | M<br>I<br>N<br>I<br>M<br>U<br>M |
|-----------------------------|-----------------------------------------------------------------------|---------------------|--------------------|---------------------------|-----------------|------------------------------------------------|-----------------------|-----------------------|----------------------------|--------------------------------------|----------------------------------------------------------|---------------------------------|
| COURSE<br>CURRIC NUM        | TITLE                                                                 | EFFECTIVE QUARTERS  | QUARTER<br>CREDITS | OVER D<br>-ALL U<br>MAX P | D<br>GRD<br>SYS | S H F<br>U N E<br>M R E                        | V<br>L I<br>P & A     | L<br>I<br>N C         | E<br>C<br>M S              | Q<br>T<br>P R                        | G                                                        |                                 |
| FISH 563                    | ECOSYS BSD MGT LAB<br>Ecosystem Based Fisheries Management Laboratory | SPR/2015 - AUT/9999 | 2.0                | .                         | .               | . . .                                          | . . . . .             |                       |                            |                                      |                                                          | .                               |
|                             |                                                                       |                     |                    | LAST UPDT: 2/18/15        |                 | APPROVED: 2/18/15                              |                       |                       |                            |                                      |                                                          |                                 |
| FISH 565                    | MARINE FISH BIOLOGY<br>MARINE FISH BIOLOGY                            | SPR/2010 - AUT/9999 | 9.0                | .                         | .               | . . .                                          | . . . . .             |                       |                            |                                      |                                                          | .                               |
|                             |                                                                       |                     |                    | LAST UPDT:12/11/12        |                 |                                                |                       |                       |                            |                                      |                                                          |                                 |
| COMMENT:MOVE COLLEGE        |                                                                       |                     |                    |                           |                 |                                                |                       |                       |                            |                                      |                                                          |                                 |
| FISH 567                    | TOPICS ADV ECOLOGY<br>TOPICS IN ADVANCED ECOLOGY                      | AUT/2012 - AUT/9999 | 3.0                | 6.0                       | .               | .                                              | . . .                 | . . . . .             |                            |                                      |                                                          | .                               |
|                             |                                                                       |                     |                    | LAST UPDT:12/11/12        |                 | APPROVED: 9/16/08                              |                       |                       |                            |                                      |                                                          |                                 |
| COMMENT:CHG JT STATUS       |                                                                       |                     |                    |                           |                 |                                                |                       |                       |                            |                                      |                                                          |                                 |
| FISH 578                    | GR SUSTAINABLE FISH<br>Graduate Topics in Sustainable Fisheries       | SPR/2010 - AUT/9999 | 2.0                | 6.0                       | .               | CR/NC                                          | .                     | . . .                 | . . . . .                  |                                      |                                                          | .                               |
|                             |                                                                       |                     |                    | LAST UPDT: 2/10/10        |                 | APPROVED:11/30/00                              |                       |                       |                            |                                      |                                                          |                                 |
| COMMENT:MOVE COLLEGE        |                                                                       |                     |                    |                           |                 |                                                |                       |                       |                            |                                      |                                                          |                                 |
| FISH 581                    | CASE STUDY METHODS<br>Case Study Research: Design and Methods         | WIN/2014 - AUT/9999 | 3.0                | .                         | .               | . . .                                          | . . . . .             |                       |                            |                                      |                                                          | .                               |
|                             |                                                                       |                     |                    | LAST UPDT: 7/23/15        |                 | APPROVED:12/07/89                              |                       |                       |                            |                                      |                                                          |                                 |
| COMMENT:CHG TITLES, DESC    |                                                                       |                     |                    |                           |                 |                                                |                       |                       |                            |                                      |                                                          |                                 |
| FISH 582                    | FISH MGMT CONTEMP<br>FISHERY MANAGEMENT:CONTEMPORARY ISSUES           | WIN/2012 - AUT/9999 | 5.0                | .                         | .               | . . .                                          | . . . . .             |                       |                            |                                      |                                                          | .                               |
|                             |                                                                       |                     |                    | LAST UPDT: 9/07/11        |                 | APPROVED:12/07/89                              |                       |                       |                            |                                      |                                                          |                                 |
| COMMENT:CHG JT STATUS       |                                                                       |                     |                    |                           |                 |                                                |                       |                       |                            |                                      |                                                          |                                 |
| FISH 600                    | INDEPNONT STDY/RSCH<br>Independent Study or Research                  | SPR/2010 - AUT/9999 | 0.0                | 999.0                     | .               | CR/NC                                          | . 11                  | . . .                 | . . . . .                  |                                      |                                                          | .                               |
|                             |                                                                       |                     |                    | LAST UPDT: 4/19/10        |                 |                                                |                       |                       |                            |                                      |                                                          |                                 |
| COMMENT:MOVE COLLEGE        |                                                                       |                     |                    |                           |                 |                                                |                       |                       |                            |                                      |                                                          |                                 |
| FISH 700                    | MASTERS THESIS<br>Master's Thesis                                     | SPR/2010 - AUT/9999 | 0.0                | 999.0                     | .               | CR/NC                                          | . 11                  | . . .                 | . . . . .                  |                                      |                                                          | .                               |
|                             |                                                                       |                     |                    | LAST UPDT: 4/19/10        |                 |                                                |                       |                       |                            |                                      |                                                          |                                 |
| COMMENT:MOVE COLLEGE        |                                                                       |                     |                    |                           |                 |                                                |                       |                       |                            |                                      |                                                          |                                 |
| FISH 800                    | DOCTORAL DISSERTATN<br>Doctoral Dissertation                          | SPR/2010 - AUT/9999 | 0.0                | 999.0                     | .               | CR/NC                                          | . 11                  | . . .                 | . . . . .                  |                                      |                                                          | .                               |
|                             |                                                                       |                     |                    | LAST UPDT: 4/19/10        |                 |                                                |                       |                       |                            |                                      |                                                          |                                 |
| COMMENT:MOVE COLLEGE        |                                                                       |                     |                    |                           |                 |                                                |                       |                       |                            |                                      |                                                          |                                 |