

**Biochemistry and Molecular Biology**  
Division of Environmental and Biomolecular Systems  
OHSU Institute of Environmental Health  
Program Requirement Checklists

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Degree: **Biochemistry and Molecular Biology – Master of Science – Nonthesis**

Track: **Biochemistry and Molecular Biology**

Student Name:	ID#:	Matric. Term:
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**General Degree Requirements:**

- 45 credits total
- Cumulative GPA at or above 3.0
- Written report on the research performed, accepted and approved by advisor
- Ethics course (CONJ 650 or approved equivalent): Completed
- Division Seminar (EBS 507A) at least two quarters. Waive when part-time:

<b>Curriculum:</b>	<b>Credits</b>	<b>Grade</b>	<b>Term/Year</b>
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- Core Courses (12 Credits required):*

<b>EBS 512 - Proteins and Enzymes</b>	_____	_____	_____
<b>EBS 513 - Introduction to Molecular Biology</b>	_____	_____	_____
<b>EBS 514 - Metabolism and Bioenergetics</b>	_____	_____	_____

- Advanced Elective Courses (16 credits, including special topics and independent studies):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Reading Groups (6 credits, includes student seminars):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Research and/or Internship (10 credits)*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Degree: **Biochemistry and Molecular Biology – Master of Science – Thesis**

Track: **Biochemistry and Molecular Biology**

Student Name:	ID#:	Matric. Term:
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**General Degree Requirements:**

- 45 credits total
- Cumulative GPA at or above 3.0
- Ethics course (CONJ 650 or approved equivalent): Completed
- Department Seminar (EBS 507A) at least four quarters. Waive when part-time:
- A written thesis and oral defense composed of original research

<b>Curriculum:</b>	<b>Credits</b>	<b>Grade</b>	<b>Term/Year</b>
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- Core Courses (12 Credits required):*

EBS 512 - Proteins and Enzymes

EBS 513 - Introduction to Molecular Biology

EBS 514 - Metabolism and Bioenergetics

- Advanced Elective Courses (8 credits, including special topics and independent studies):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Reading Groups (6 credits, includes student seminars):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Research and/or Internship (18 credits)*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Degree: **Biochemistry and Molecular Biology – Doctor of Philosophy**

Track: **Biochemistry and Molecular Biology**

Student Name:	ID#:	Matric. Term:
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**General Degree Requirements:**

- 135 credits minimum
- Cumulative GPA at or above 3.0
- Ethics course (CONJ 650 or approved equivalent): Completed
- Department Seminar (EBS 607A) at least eight quarters. Waive when part-time:
- Qualifying exam. Date Completed: Written                  Oral
- A written dissertation and oral defense composed of original research of publishable quality

<b>Curriculum:</b>	<b>Credits</b>	<b>Grade</b>	<b>Term/Year</b>
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- Core Courses (12 Credits required):*

EBS 612 - Proteins and Enzymes	_____	_____	_____
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EBS 613 - Introduction to Molecular Biology	_____	_____	_____
---------------------------------------------	-------	-------	-------

EBS 614 - Metabolism and Bioenergetics	_____	_____	_____
----------------------------------------	-------	-------	-------

- Advanced Elective Courses (12 credits, including special topics and independent studies):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Reading Groups (12 credits, includes student seminars):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Research (24+ credits)*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Degree: **Biochemistry and Molecular Biology – Master of Science – Nonthesis**

Track: **Environmental and Biomolecular Systems**

Student Name:	ID#:	Matric. Term:
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**General Degree Requirements:**

- 45 credits total
- Cumulative GPA at or above 3.0
- Written report on the research performed, accepted and approved by advisor
- Ethics course (CONJ 650 or approved equivalent): Completed
- Division Seminar (EBS 507A) at least two quarters. Waive when part-time:

<b>Curriculum:</b>	<b>Credits</b>	<b>Grade</b>	<b>Term/Year</b>
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*Core Courses (12 Credits required):*

EBS 515 - Environ. Biomolec. Hist. Earth	_____	_____	_____
EBS 516 - Metals in Environ. Human Health	_____	_____	_____
EBS 517 - Environ. Syst. and Human Health	_____	_____	_____

*Advanced Elective Courses (16 credits, including special topics and independent studies):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

*Reading Groups (6 credits, includes student seminars):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

*Research and/or Internship (10 credits)*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Degree: **Biochemistry and Molecular Biology – Master of Science – Thesis**

Track: **Environmental and Biomolecular Systems**

Student Name:	ID#:	Matric. Term:
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**General Degree Requirements:**

- 45 credits total
- Cumulative GPA at or above 3.0
- Ethics course (CONJ 650 or approved equivalent): Completed
- Department Seminar (EBS 507A) at least four quarters. Waive when part-time:
- A written thesis and oral defense composed of original research

<b>Curriculum:</b>	<b>Credits</b>	<b>Grade</b>	<b>Term/Year</b>
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- Core Courses (12 Credits required):*

EBS 515 - Environ. Biomolec. Hist. Earth	_____	_____	_____
EBS 516 - Metals in Environ. Human Health	_____	_____	_____
EBS 517 - Environ. Syst. and Human Health	_____	_____	_____

- Advanced Elective Courses (8 credits, including special topics and independent studies):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Reading Groups (6 credits, includes student seminars):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Research and/or Internship (18 credits)*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Degree: **Biochemistry and Molecular Biology – Doctor of Philosophy**

Track: **Environmental and Biomolecular Systems**

Student Name:	ID#:	Matric. Term:
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**General Degree Requirements:**

- 135 credits minimum
- Cumulative GPA at or above 3.0
- Ethics course (CONJ 650 or approved equivalent): Completed
- Department Seminar (EBS 607A) at least eight quarters. Waive when part-time:
- Qualifying exam. Date Completed: Written          Oral
- A written dissertation and oral defense composed of original research of publishable quality

<b>Curriculum:</b>	<b>Credits</b>	<b>Grade</b>	<b>Term/Year</b>
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*Core Courses (12 Credits required):*

EBS 615 - Environ. Biomolec. Hist. Earth	_____	_____	_____
EBS 616 - Metals in Environ. Human Health	_____	_____	_____
EBS 617 - Environ. Syst. and Human Health	_____	_____	_____

*Advanced Elective Courses (12 credits, including special topics and independent studies):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

*Reading Groups (12 credits, includes student seminars):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

*Research (24+ credits)*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

**Environmental Science and Engineering**  
 Division of Environmental and Biomolecular Systems  
 OHSU Institute of Environmental Health  
 Program Requirement Checklists

<i>Degree:</i>	Environmental Science and Engineering – Master of Science – Nonthesis .....	2
<i>Track:</i>	<i>Environmental Science and Engineering</i> .....	2
<i>Degree:</i>	Environmental Science and Engineering – Master of Science – Thesis .....	3
<i>Track:</i>	<i>Environmental Science and Engineering</i> .....	3
<i>Degree:</i>	Environmental Science and Engineering – Doctor of Philosophy .....	4
<i>Track:</i>	<i>Environmental Science and Engineering</i> .....	4
<i>Degree:</i>	Environmental Science and Engineering – Master of Science – Nonthesis .....	5
<i>Track:</i>	<i>Environmental and Biomolecular Systems</i> .....	5
<i>Degree:</i>	Environmental Science and Engineering – Master of Science – Thesis .....	6
<i>Track:</i>	<i>Environmental and Biomolecular Systems</i> .....	6
<i>Degree:</i>	Environmental Science and Engineering – Doctor of Philosophy .....	7
<i>Track:</i>	<i>Environmental and Biomolecular Systems</i> .....	7
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<i>Track:</i>	<i>Estuary and Ocean Systems</i> .....	10

Degree: **Environmental Science and Engineering – Master of Science – Nonthesis**

Track: **Environmental Science and Engineering**

Student Name:	ID#:	Matric. Term:
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**General Degree Requirements:**

- 45 credits total
- Cumulative GPA at or above 3.0
- Ethics course (CONJ 650 or approved equivalent): Completed
- Division Seminar (EBS 507A) at least two quarters. Waive when part-time:

<b>Curriculum:</b>	<b>Credits</b>	<b>Grade</b>	<b>Term/Year</b>
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- Core Courses (12 Credits required):*

EBS 510 - Aquatic Chemistry	_____	_____	_____
EBS 535 - Chem. of Organic Contaminants	_____	_____	_____
EBS 575 - Chem. Transp. Proc. Environ. Health	_____	_____	_____

- Advanced Elective Courses (16 credits, including special topics and independent studies):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Reading Groups (6 credits, includes student seminars):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Research and/or Internship (10 credits)*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Degree: **Environmental Science and Engineering – Master of Science – Thesis**

Track: **Environmental Science and Engineering**

Student Name:	ID#:	Matric. Term:
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**General Degree Requirements:**

- 45 credits total
- Cumulative GPA at or above 3.0
- Ethics course (CONJ 650 or approved equivalent): Completed
- Department Seminar (EBS 507A) at least four quarters. Waive when part-time:
- A written thesis and oral defense composed of original research

<b>Curriculum:</b>	<b>Credits</b>	<b>Grade</b>	<b>Term/Year</b>
--------------------	----------------	--------------	------------------

- Core Courses (12 Credits required):*

EBS 510 - Aquatic Chemistry

EBS 535 - Chem. of Organic Contaminants

EBS 575 - Chem. Transp. Proc. Environ. Health

- Advanced Elective Courses (8 credits, including special topics and independent studies):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Reading Groups (6 credits, includes student seminars):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Research (18 credits)*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Degree: **Environmental Science and Engineering – Doctor of Philosophy**

Track: **Environmental Science and Engineering**

Student Name:	ID#:	Matric. Term:
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**General Degree Requirements:**

- 135 credits minimum
- Cumulative GPA at or above 3.0
- Ethics course (CONJ 650 or approved equivalent): Completed
- Department Seminar (EBS 607A) at least eight quarters. Waive when part-time:
- Qualifying exam. Date Completed: Written          Oral
- A written dissertation and oral defense composed of original research of publishable quality

<b>Curriculum:</b>	<b>Credits</b>	<b>Grade</b>	<b>Term/Year</b>
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- Core Courses (12 Credits required):*

EBS 610 - Aquatic Chemistry	_____	_____	_____
EBS 635 - Chem. of Organic Contaminants	_____	_____	_____
EBS 675 - Chem. Transp. Proc. Environ. Health	_____	_____	_____

- Advanced Elective Courses (12 credits, including special topics and independent studies):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Reading Groups (12 credits, includes student seminars):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Research (24+ credits)*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Degree: **Environmental Science and Engineering – Master of Science – Nonthesis**

Track: **Environmental and Biomolecular Systems**

Student Name:	ID#:	Matric. Term:
---------------	------	---------------

**General Degree Requirements:**

- 45 credits total
- Cumulative GPA at or above 3.0
- Ethics course (CONJ 650 or approved equivalent): Completed
- Department Seminar (EBS 507A) at least two quarters. Waive when part-time:

<b>Curriculum:</b>	<b>Credits</b>	<b>Grade</b>	<b>Term/Year</b>
--------------------	----------------	--------------	------------------

- Core Courses (12 Credits required):*

EBS 515 - Environ. Biomolec. Hist. Earth	_____	_____	_____
EBS 516 - Metals in Environ. Human Health	_____	_____	_____
EBS 517 - Environ. Syst. and Human Health	_____	_____	_____

- Advanced Elective Courses (16 credits, including special topics and independent studies):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Reading Groups (6 credits, includes student seminars):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Research and/or Internship (10 credits)*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Degree: **Environmental Science and Engineering – Master of Science – Thesis**

Track: **Environmental and Biomolecular Systems**

Student Name:	ID#:	Matric. Term:
---------------	------	---------------

**General Degree Requirements:**

- 45 credits total
- Cumulative GPA at or above 3.0
- Ethics course (CONJ 650 or approved equivalent): Completed
- Department Seminar (EBS 507A) at least four quarters. Waive when part-time:
- A written thesis and oral defense composed of original research

<b>Curriculum:</b>	<b>Credits</b>	<b>Grade</b>	<b>Term/Year</b>
--------------------	----------------	--------------	------------------

- Core Courses (12 Credits required):*

EBS 515 - Environ. Biomolec. Hist. Earth	_____	_____	_____
EBS 516 - Metals in Environ. Human Health	_____	_____	_____
EBS 517 - Environ. Syst. and Human Health	_____	_____	_____

- Advanced Elective Courses (8 credits, including special topics and independent studies):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Reading Groups (6 credits, includes student seminars):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Research (18 credits)*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Degree: **Environmental Science and Engineering – Doctor of Philosophy**

Track: **Environmental and Biomolecular Systems**

Student Name:	ID#:	Matric. Term:
---------------	------	---------------

**General Degree Requirements:**

- 135 credits minimum
- Cumulative GPA at or above 3.0
- Ethics course (CONJ 650 or approved equivalent): Completed
- Department Seminar (EBS 607A) at least eight quarters. Waive when part-time:
- Qualifying exam. Date Completed: Written            Oral
- A written dissertation and oral defense composed of original research of publishable quality

<b>Curriculum:</b>	<b>Credits</b>	<b>Grade</b>	<b>Term/Year</b>
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*Core Courses (12 Credits required):*

EBS 615 - Environ. Biomolec. Hist. Earth	_____	_____	_____
EBS 616 - Metals in Environ. Human Health	_____	_____	_____
EBS 617 - Environ. Syst. and Human Health	_____	_____	_____

*Advanced Elective Courses (12 credits, including special topics and independent studies):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

*Reading Groups (12 credits, includes student seminars):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

*Research (24+ credits)*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Degree: **Environmental Science and Engineering – Master of Science – Nonthesis**

Track: **Estuary and Ocean Systems**

Student Name:	ID#:	Matric. Term:
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**General Degree Requirements:**

- 45 credits total
- Cumulative GPA at or above 3.0
- Ethics course (CONJ 650 or approved equivalent): Completed
- Department Seminar (EBS 507A) at least two quarters. Waive when part-time:

<b>Curriculum:</b>	<b>Credits</b>	<b>Grade</b>	<b>Term/Year</b>
--------------------	----------------	--------------	------------------

- Core Courses (12 Credits required):*

EBS 565 - Estuary and Ocean Systems I	_____	_____	_____
EBS 566 - Estuary and Ocean Systems II	_____	_____	_____
EBS 517 - Environ. Syst. and Human Health	_____	_____	_____

- Advanced Elective Courses (16 credits, including special topics and independent studies):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Reading Groups (6 credits, includes student seminars):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Research and/or Internship (10 credits)*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Degree: **Environmental Science and Engineering – Master of Science – Thesis**

Track: **Estuary and Ocean Systems**

Student Name:	ID#:	Matric. Term:
---------------	------	---------------

**General Degree Requirements:**

- 45 credits total
- Cumulative GPA at or above 3.0
- Ethics course (CONJ 650 or approved equivalent): Completed
- Department Seminar (EBS 507A) at least four quarters. Waive when part-time:
- A written thesis and oral defense composed of original research

<b>Curriculum:</b>	<b>Credits</b>	<b>Grade</b>	<b>Term/Year</b>
--------------------	----------------	--------------	------------------

- Core Courses (12 Credits required):*

EBS 565 - Estuary and Ocean Systems I	_____	_____	_____
EBS 566 - Estuary and Ocean Systems II	_____	_____	_____
EBS 517 - Environ. Syst. and Human Health	_____	_____	_____

- Advanced Elective Courses (8 credits, including special topics and independent studies):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Reading Groups (6 credits, includes student seminars):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Research (18 credits)*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Degree: **Environmental Science and Engineering – Doctor of Philosophy**

Track: **Estuary and Ocean Systems**

Student Name:	ID#:	Matric. Term:
---------------	------	---------------

**General Degree Requirements:**

- 135 credits minimum
- Cumulative GPA at or above 3.0
- Ethics course (CONJ 650 or approved equivalent): Completed
- Department Seminar (EBS 607A) at least eight quarters. Waive when part-time:
- Qualifying exam. Date Completed: Written            Oral
- A written dissertation and oral defense composed of original research of publishable quality

<b>Curriculum:</b>	<b>Credits</b>	<b>Grade</b>	<b>Term/Year</b>
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- Core Courses (12 Credits required):*

EBS 665 - Estuary and Ocean Systems I	_____	_____	_____
EBS 666 - Estuary and Ocean Systems II	_____	_____	_____
EBS 617 - Environ. Syst. and Human Health	_____	_____	_____

- Advanced Elective Courses (12 credits, including special topics and independent studies):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Reading Groups (12 credits, includes student seminars):*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

- Research (24+ credits)*

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____