

Biochemistry & Molecular Biology

Department of Environmental and Biomolecular Systems

Program Requirement Checklists

Fall 2007 – Summer 2008

Master of Science – Biochemistry and Molecular Biology.....2

Doctor of Philosophy – Biochemistry and Molecular Biology3

I approve the following curriculum checklists as the Fall 2007 – Summer 2008 curriculum for the Biochemistry & Molecular Biology programs.

Signature

Date

Print Name

Degree: **Master of Science – Biochemistry and Molecular Biology**
Matriculation Term: **Fall 2007 Winter 2008 Spring 2008 Summer 2008**

Non-Thesis Degree Requirements:

- 44 total credits
 - 12 required credits listed below
 - 16 elective credits
 - 16 research credits in EBS 501 – Non-Thesis Research
- Written report on the research performed, accepted and approved by advisor
- Cumulative GPA at or above 3.0

Thesis Degree Requirements:

- 44 total credits
 - 12 required credits listed below
 - 8 elective credits
 - 24 research credits in EBS 503 – M.S. Thesis Research
- A written thesis and oral defense based on independent research
- Cumulative GPA at or above 3.0

Curriculum: **Credits Grade Term**

<input type="checkbox"/> <i>The following classes are required:</i>			
EBS 507A – EBS Department Seminar (every term offered)			
EBS 512 – Biochemistry I: Proteins and Enzymes	_____	_____	_____
EBS 513 – Biochemistry II: Introduction to Molecular Biology	_____	_____	_____
EBS 514 – Biochemistry III: Metabolism and Bioenergetics	_____	_____	_____
<input type="checkbox"/> <i>Elective credits (including non-EBS classes with approval of SPC) according to above requirements:</i>			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
<input type="checkbox"/> <i>EBS research credits according to above requirements:</i>			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Biochemistry and Molecular Biology
 Department of Environmental and Biomolecular Systems
 Program Requirement Checklists
 Spring 2008 – Summer 2008

<i>Degree:</i>	Biochemistry and Molecular Biology – Master of Science – Nonthesis	2
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I approve the following curriculum checklists as the Spring 2008 – Summer 2008 curriculum for the Biochemistry & Molecular Biology programs.

 Signature

 Date

 Print Name

Degree: **Biochemistry and Molecular Biology – Master of Science – Nonthesis**
 Track: **Biochemistry and Molecular Biology**
 Matriculation Term: **Spring 2008 Summer 2008**

General Degree Requirements:

- 44 Credits total
- Cumulative GPA at or above 3.0
- Written report on the research performed, accepted and approved by advisor
- Department Seminar (EBS 507A) each Fall, Winter, and Spring quarter

Curriculum: **Credits Grade Term**

Core Courses (12 Credits required):

EBS 512 – Proteins and Enzymes	_____	_____	_____
EBS 513 – Introduction to Molecular Biology	_____	_____	_____
EBS 514 – Metabolism and Bioenergetics	_____	_____	_____

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**
 Matriculation Term: **Spring 2008 Summer 2008**

General Degree Requirements:

- 44 Credits total
- Cumulative GPA at or above 3.0
- Department Seminar (EBS 507A) each Fall, Winter, and Spring quarter
- A written thesis and oral defense composed of original research

Curriculum: **Credits Grade Term**

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 (18 credits)

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

Degree: Biochemistry and Molecular Biology – Doctor of Philosophy
Track: Biochemistry and Molecular Biology
Matriculation Term: Spring 2008 Summer 2008

General Degree Requirements:

- 60 credits minimum
- Cumulative GPA at or above 3.0
- Department Seminar (EBS 607A) each Fall, Winter, and Spring quarter
- Qualifying exam, Date qualifying exam completed: _____
- A written dissertation and oral defense composed of original research of publishable quality

Curriculum: **Credits** **Grade** **Term**

Core Courses (12 Credits required):

EBS 612 –Proteins and Enzymes	_____	_____	_____
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**
 Matriculation Term: **Spring 2008 Summer 2008**

General Degree Requirements:

- 44 Credits total
- Cumulative GPA at or above 3.0
- Written report on the research performed, accepted and approved by advisor
- Department Seminar (EBS 507A) each Fall, Winter, and Spring quarter

Curriculum: **Credits Grade Term**

Core Courses (12 Credits required):

EBS 515 – Environmental & Biomolecular History of the Earth	_____	_____	_____
EBS 516 – Environmental Bioinorganic Chemistry	_____	_____	_____
EBS 517 – Environmental Systems 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**
 Matriculation Term: **Spring 2008 Summer 2008**

General Degree Requirements:

- 44 Credits total
- Cumulative GPA at or above 3.0
- Department Seminar (EBS 507A) each Fall, Winter, and Spring quarter
- A written thesis and oral defense composed of original research

Curriculum: **Credits Grade Term**

Core Courses (12 Credits required):

EBS 515 – Environmental & Biomolecular History of the Earth	_____	_____	_____
EBS 516 – Environmental Bioinorganic Chemistry	_____	_____	_____
EBS 517 – Environmental Systems 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: Biochemistry and Molecular Biology – Doctor of Philosophy
Track: Environmental and Biomolecular Systems
Matriculation Term: Spring 2008 Summer 2008

General Degree Requirements:

- 60 credits minimum
- Cumulative GPA at or above 3.0
- Department Seminar (EBS 607A) each Fall, Winter, and Spring quarter
- Qualifying exam, Date qualifying exam completed: _____
- A written dissertation and oral defense composed of original research of publishable quality

Curriculum: **Credits** **Grade** **Term**

<input type="checkbox"/> <i>Core Courses (12 Credits required):</i>			
EBS 615 – Environmental & Biomolecular History of the Earth	_____	_____	_____
EBS 616 – Environmental Bioinorganic Chemistry	_____	_____	_____
EBS 617 – Environmental Systems and Human Health	_____	_____	_____
<input type="checkbox"/> <i>Advanced Elective Courses (12 credits, including special topics and independent studies):</i>			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
<input type="checkbox"/> <i>Reading Groups (12 credits, includes student seminars):</i>			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
<input type="checkbox"/> <i>Research (24+ credits)</i>			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Environmental Science and Engineering
Department of Environmental and Biomolecular Systems
Program Requirement Checklists
Fall 2007 – Summer 2008

Master of Science – Environmental Science and Engineering.....2
 Track: Environmental Information Technology4

Doctor of Philosophy – Environmental Science and Engineering5

I approve the following curriculum checklists as the Fall 2007 – Summer 2008 curriculum for the Environmental Science & Engineering programs.

Signature

Date

Print Name

Degree: **Master of Science – Environmental Science and Engineering**
Matriculation Term: **Fall 2007 Winter 2008 Spring 2008 Summer 2008**

Non-Thesis Degree Requirements:

- 45 credits
- No more than 8 credits of EBS 501 – Non-Thesis Research and/or EBS 504 – Internship
- Cumulative GPA at or above 3.0

Thesis Degree Requirements:

- 45 credits
- Cumulative GPA at or above 3.0
- 9 credits of EBS 503 – M.S. Thesis Research
- A written thesis and oral defense

Curriculum: **Credits Grade Term**

- EBS 507A – EBS Department Seminar (every term offered)*
- At least 1 course must be taken from 3 of the following 4 scientific discipline groups (no course may satisfy more than one requirement in the program):*

Applied Mathematics

EBS 547 – Uncertainty Analysis	_____	_____	_____
EBS 550 – Environmental Systems Analysis	_____	_____	_____
EBS 555 – Computational Fluid Dynamics	_____	_____	_____
EBS 561 – Introduction to Spatial Sciences	_____	_____	_____
MATH 511 – Introduction to Discrete Numerical Methods	_____	_____	_____

Chemistry

EBS 510 – Aquatic Chemistry	_____	_____	_____
EBS 511 – Advanced Aquatic Chemistry	_____	_____	_____
EBS 535 – Distribution and Fate of Organic Pollutants	_____	_____	_____
EBS 537 – Chemical Degradation and Remediation	_____	_____	_____

Fluid Dynamics

EBS 560 – Intro to Environmental Observation & Forecasting Sys	_____	_____	_____
EBS 575 – Transport Processes	_____	_____	_____
EBS 578 – Methods in Estuarine Oceanography: Field Observ	_____	_____	_____

Biology

EBS 590 – Environmental Microbiology	_____	_____	_____
EBS 593 – Biodegradation and Bioremediation	_____	_____	_____

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

Matriculation Term: **Fall 2007 Winter 2008 Spring 2008 Summer 2008**

Degree Requirements:

- Cumulative GPA at or above 3.0
- 52 credits of coursework
- Qualifying exam: 1) written exam covering four subject areas; 2) preparation and oral defense of a dissertation research proposal
Date qualifying exam completed: _____
- Doctoral dissertation that documents a significant, original research contribution of publishable quality in both content and presentation – written dissertation and oral defense

Curriculum: **Credits Grade Term**

- EBS 607A – EBS Department Seminar (every term offered)*
- At least 1 course must be taken from 3 of the following 4 scientific discipline groups (no course may satisfy more than one requirement in the program):*

Applied Mathematics

EBS 647 – Uncertainty Analysis	_____	_____	_____
EBS 650 – Environmental Systems Analysis	_____	_____	_____
EBS 655 – Computational Fluid Dynamics	_____	_____	_____
EBS 661 – Introduction to Spatial Sciences	_____	_____	_____
MATH 611 – Introduction to Discrete Numerical Methods	_____	_____	_____
_____	_____	_____	_____

Chemistry

EBS 610 – Aquatic Chemistry	_____	_____	_____
EBS 611 – Advanced Aquatic Chemistry	_____	_____	_____
EBS 635 – Distribution and Fate of Organic Pollutants	_____	_____	_____
EBS 637 – Chemical Degradation and Remediation	_____	_____	_____
_____	_____	_____	_____

Fluid Dynamics

EBS 660 – Intro to Environmental Observation & Forecasting Sys	_____	_____	_____
EBS 675 – Transport Processes	_____	_____	_____
EBS 678 – Methods in Estuarine Oceanography: Field Observ	_____	_____	_____
_____	_____	_____	_____

Biology

EBS 690 – Environmental Microbiology	_____	_____	_____
EBS 693 – Biodegradation and Bioremediation	_____	_____	_____
_____	_____	_____	_____

Environmental Science and Engineering
 Department of Environmental and Biomolecular Systems
 Program Requirement Checklists
 Spring 2008 – Summer 2008

Degree: Environmental Science and Engineering – Master of Science – Nonthesis2
Track: *Environmental Science and Engineering*2

Degree: Environmental Science and Engineering – Master of Science – Thesis3
Track: *Environmental Science and Engineering*3

Degree: Environmental Science and Engineering – Doctor of Philosophy4
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Degree: Environmental Science and Engineering – Master of Science – Thesis9
Track: *Environmental Information Technology*9

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Track: *Environmental Information Technology*10

I approve the following curriculum checklists as the Spring 2008 – Summer 2008 curriculum for the Environmental Science & Engineering programs.

 Signature

 Date

 Print Name

Degree: **Environmental Science and Engineering – Master of Science – Nonthesis**
 Track: **Environmental Science and Engineering**
 Matriculation Term: **Spring 2008 Summer 2008**

General Degree Requirements:

- 44 Credits total
- Cumulative GPA at or above 3.0
- Department Seminar (EBS 507A) each Fall, Winter, and Spring quarter

Curriculum: **Credits Grade Term**

<input type="checkbox"/> <i>Core Courses (12 Credits required):</i>			
EBS 510 – Aquatic Chemistry	_____	_____	_____
EBS 535 – Distribution and Fate of Organic Chemicals	_____	_____	_____
EBS 575 – Transport Processes	_____	_____	_____
<input type="checkbox"/> <i>Advanced Elective Courses (16 credits, including special topics and independent studies):</i>			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
<input type="checkbox"/> <i>Reading Groups (6 credits, includes student seminars):</i>			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
<input type="checkbox"/> <i>Research and/or Internship (10 credits)</i>			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Degree: **Environmental Science and Engineering – Master of Science – Thesis**
 Track: **Environmental Science and Engineering**
 Matriculation Term: **Spring 2008 Summer 2008**

General Degree Requirements:

- 44 Credits total
- Cumulative GPA at or above 3.0
- Department Seminar (EBS 507A) each Fall, Winter, and Spring quarter
- A written thesis and oral defense composed of original research

Curriculum: **Credits Grade Term**

Core Courses (12 Credits required):

EBS 510 – Aquatic Chemistry	_____	_____	_____
EBS 535 – Distribution and Fate of Organic Chemicals	_____	_____	_____
EBS 575 – Transport Processes	_____	_____	_____

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
Matriculation Term: Spring 2008 Summer 2008

General Degree Requirements:

- 60 credits minimum
- Cumulative GPA at or above 3.0
- Department Seminar (EBS 607A) each Fall, Winter, and Spring quarter
- Qualifying exam, Date qualifying exam completed: _____
- A written dissertation and oral defense composed of original research of publishable quality

Curriculum: **Credits** **Grade** **Term**

<input type="checkbox"/> <i>Core Courses (12 Credits required):</i>			
EBS 610 – Aquatic Chemistry	_____	_____	_____
EBS 635 – Distribution and Fate of Organic Chemicals	_____	_____	_____
EBS 675 – Transport Processes	_____	_____	_____
<input type="checkbox"/> <i>Advanced Elective Courses (12 credits, including special topics and independent studies):</i>			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
<input type="checkbox"/> <i>Reading Groups (12 credits, includes student seminars):</i>			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
<input type="checkbox"/> <i>Research (24+ credits)</i>			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Degree: **Environmental Science and Engineering – Master of Science – Nonthesis**
 Track: **Environmental and Biomolecular Systems**
 Matriculation Term: **Spring 2008 Summer 2008**

General Degree Requirements:

- 44 Credits total
- Cumulative GPA at or above 3.0
- Department Seminar (EBS 507A) each Fall, Winter, and Spring quarter

Curriculum: **Credits Grade Term**

<input type="checkbox"/> <i>Core Courses (12 Credits required):</i>			
EBS 515 – Environmental & Biomolecular History of the Earth	_____	_____	_____
EBS 516 – Environmental Bioinorganic Chemistry	_____	_____	_____
EBS 517 – Environmental Systems and Human Health	_____	_____	_____
<input type="checkbox"/> <i>Advanced Elective Courses (16 credits, including special topics and independent studies):</i>			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
<input type="checkbox"/> <i>Reading Groups (6 credits, includes student seminars):</i>			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
<input type="checkbox"/> <i>Research and/or Internship (10 credits)</i>			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Degree: **Environmental Science and Engineering – Master of Science – Thesis**
 Track: **Environmental and Biomolecular Systems**
 Matriculation Term: **Spring 2008 Summer 2008**

General Degree Requirements:

- 44 Credits total
- Cumulative GPA at or above 3.0
- Department Seminar (EBS 507A) each Fall, Winter, and Spring quarter
- A written thesis and oral defense composed of original research

Curriculum: **Credits** **Grade** **Term**

Core Courses (12 Credits required):

EBS 515 – Environmental & Biomolecular History of the Earth	_____	_____	_____
EBS 516 – Environmental Bioinorganic Chemistry	_____	_____	_____
EBS 517 – Environmental Systems 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**
Matriculation Term: **Spring 2008 Summer 2008**

General Degree Requirements:

- 60 credits minimum
- Cumulative GPA at or above 3.0
- Department Seminar (EBS 607A) each Fall, Winter, and Spring quarter
- Qualifying exam, Date qualifying exam completed: _____
- A written dissertation and oral defense composed of original research of publishable quality

Curriculum: **Credits Grade Term**

<input type="checkbox"/> <i>Core Courses (12 Credits required):</i>			
EBS 615 – Environmental & Biomolecular History of the Earth	_____	_____	_____
EBS 616 – Environmental Bioinorganic Chemistry	_____	_____	_____
EBS 617 – Environmental Systems and Human Health	_____	_____	_____
<input type="checkbox"/> <i>Advanced Elective Courses (12 credits, including special topics and independent studies):</i>			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
<input type="checkbox"/> <i>Reading Groups (12 credits, includes student seminars):</i>			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
<input type="checkbox"/> <i>Research (24+ credits)</i>			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Degree: Environmental Science and Engineering – Master of Science – Nonthesis
Track: Environmental Information Technology
Matriculation Term: Spring 2008 Summer 2008

General Degree Requirements:

- 44 Credits total
- Cumulative GPA at or above 3.0
- Department Seminar (EBS 507A) each Fall, Winter, and Spring quarter

Curriculum: **Credits Grade Term**

Core Courses (12 Credits required). Actual courses to be determined by SPC:

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 Information Technology**
 Matriculation Term: **Spring 2008 Summer 2008**

General Degree Requirements:

- 44 Credits total
- Cumulative GPA at or above 3.0
- Department Seminar (EBS 507A) each Fall, Winter, and Spring quarter
- A written thesis and oral defense composed of original research

Curriculum: **Credits** **Grade** **Term**

- Core Courses (12 Credits required). Actual courses to be determined by SPC:*

- 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 Information Technology**
 Matriculation Term: **Spring 2008** **Summer 2008**

General Degree Requirements:

- 60 credits minimum
- Cumulative GPA at or above 3.0
- Department Seminar (EBS 607A) each Fall, Winter, and Spring quarter
- Qualifying exam, Date qualifying exam completed: _____
- A written dissertation and oral defense composed of original research of publishable quality

Curriculum: **Credits** **Grade** **Term**

- Core Courses (12 Credits required). Actual courses to be determined by SPC:*

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

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

- Research (24+ credits)*
