

Overview of Proficiencies by Graduate Track

Demonstration of Proficiency*

A student's committee may prescribe additional activities to attain required proficiency.

CORE CURRICULUM

- | | |
|--|--|
| <input type="checkbox"/> Plant Diversity | <input type="checkbox"/> Seminar (BOT 610) |
| <input type="checkbox"/> Terrestrial Plants | <input type="checkbox"/> 1st Lecture/Presentation (all MS and PhD) |
| <input type="checkbox"/> Fungi | <input type="checkbox"/> 2nd Lecture (PhD only) |
| <input type="checkbox"/> Algae | <input type="checkbox"/> 3rd Lecture (PhD only) |
| <input type="checkbox"/> Evolution / Genetics | |
| <input type="checkbox"/> Ecology (relevant course ≥400 level) | |

CONSERVATION TRACK

- | | |
|---|--|
| <input type="checkbox"/> Conservation Biology | <input type="checkbox"/> Policy |
| <input type="checkbox"/> Resource Management | <input type="checkbox"/> Systematics of appropriate group |
| <input type="checkbox"/> Advanced Technique #1 – Statistics (≥400 level) | <input type="checkbox"/> Advanced Technique #2 – GIS training or course |

ECOLOGY TRACK

- | | |
|--|---|
| <input type="checkbox"/> Ecology (2nd Course) | <input type="checkbox"/> Plant Physiology |
| <input type="checkbox"/> Systematics of appropriate group | <input type="checkbox"/> Advanced Technique #1 – Statistics (≥400 level) |
| <input type="checkbox"/> Advanced Technique #2 | |

ETHNOBOTANY TRACK

- | | |
|---|---|
| <input type="checkbox"/> Biogeography | <input type="checkbox"/> Ethnobotany |
| <input type="checkbox"/> Systematics of appropriate group | <input type="checkbox"/> Social Science |
| <input type="checkbox"/> Advanced Technique #1 – Statistics (≥400 level) | <input type="checkbox"/> Advanced Technique #2 |

GENERAL BOTANY TRACK

- | | |
|--|--|
| <input type="checkbox"/> Anatomy / Structure | <input type="checkbox"/> Evolution (if core was genetics) |
| <input type="checkbox"/> Physiology | <input type="checkbox"/> Systematics (1 of 2) |
| <input type="checkbox"/> Systematics (2 of 2) | <input type="checkbox"/> Advanced Technique |

MARINE BOTANY TRACK

- | | |
|--|---|
| <input type="checkbox"/> Ecology (BOT 682 plus 2nd course) | <input type="checkbox"/> Physiology |
| <input type="checkbox"/> Systematics (BOT 480 or equivalent) | <input type="checkbox"/> Advanced Technique #1 – Statistics (≥400 level) |
| <input type="checkbox"/> Advanced Technique #2 | |

SYSTEMATICS / EVOLUTION TRACK

- | | |
|--|--|
| <input type="checkbox"/> Anatomy / Structure | <input type="checkbox"/> Evolution / Genetics (2nd course) |
| <input type="checkbox"/> Systematics of appropriate group | <input type="checkbox"/> Molecular Biology |
| <input type="checkbox"/> Advanced Technique | |

WHOLE PLANT TRACK

- | | |
|---|---|
| <input type="checkbox"/> Physiology (1 of 2) | <input type="checkbox"/> Physiology (2 of 2) |
| <input type="checkbox"/> Anatomy / Structure | <input type="checkbox"/> Advanced Technique #1 – Statistics (≥400 level) |
| <input type="checkbox"/> Advanced Technique #2 | |

* = Proficiency can be demonstrated by passing a scheduled proficiency exam, satisfactorily completing appropriate curriculum, or by demonstrating other relevant experience.

Laboratory Courses are to be taken with lecture courses when offered except BIOL 375.

Graduate courses must carry at least 2 credits to demonstrate proficiency in a subject

Courses Considered Appropriate for Track Proficiency

Anatomy / Structure: BOT 410 (final offering in Spring 2012), BOT 420 (to be first offered Spring 2013)

Biogeography: ZOOL 485

Conservation Biology: BOT/ZOOL 690, BOT 750

Ecology (1 of 2): BOT 453 (but not if it was used to fulfill a physiology proficiency), BOT 454, BOT 456

Ecology (2 of 2): BOT 453 (but not if it was used to fulfill a physiology proficiency), relevant 600 level course

Ethnobotany: see separate documentation for the ethnobotany track on the botany website

Evolution: BOT 462, ZOOL 480, other senior level evolution courses

Genetics: BIOL 375, other senior level

Molecular Biology: BIOL 275, BIOL 402, BIOL 406, BIOL 407, ZOOL 487

Physiology: BOT 470 or BOT 420 (1 of 2), BOT 670 or other, BOT 682, BOT 453 (but not if it was used to fulfill an ecology proficiency)

Plant Diversity: BOT 201, courses in morphology of plants, algae, and/or fungi (BOT 430)

Policy: relevant 400 to 600 level course

Resource Management: relevant 400 to 600 level course

Social Science: see separate documentation for the ethnobotany track on the botany website

Systematics: BOT 430, BOT 461, BOT 480, other specialized courses, BOT 669, PEPS 662

Advanced Techniques: These should be an advanced training in a skill related area, not a curriculum related area

ZOOL 631

GIS

Attendance at workshop

Scientific diving certification

Computer programming

Usage of particular programs

Attendance at a field course

Conservation Track

Name: _____

**Students will work with their interim and/or permanent committees to determine when and how
proficiencies are met.**

CORE CURRICULUM

How and when proficiency was met

- | | |
|---|-------|
| <input type="checkbox"/> Plant Diversity | _____ |
| <input type="checkbox"/> Terrestrial Plants | _____ |
| <input type="checkbox"/> Fungi | _____ |
| <input type="checkbox"/> Algae | _____ |
| <input type="checkbox"/> Evolution / Genetics | _____ |
| <input type="checkbox"/> Ecology (relevant course ≥ 400 level) | _____ |
| <input type="checkbox"/> Seminar (BOT 610) | _____ |
| <input type="checkbox"/> 1st Lecture/Presentation (all MS and PhD) | _____ |
| <input type="checkbox"/> 2nd Lecture (PhD only) | _____ |
| <input type="checkbox"/> 3rd Lecture (PhD only) | _____ |

TRACK-SPECIFIC CURRICULUM

How and when proficiency was met

- | | |
|--|-------|
| <input type="checkbox"/> Conservation Biology | _____ |
| <input type="checkbox"/> Resource Management | _____ |
| <input type="checkbox"/> Advanced Technique #1 – Statistics (≥ 400 level) | _____ |
| <input type="checkbox"/> Advanced Technique #2 – GIS training or course | _____ |
| <input type="checkbox"/> Policy | _____ |
| <input type="checkbox"/> Systematics of appropriate group | _____ |
-

Ecology Track

Name: _____

Students will work with their interim and/or permanent committees to determine when and how proficiencies are met.

CORE CURRICULUM

How and when proficiency was met

- | | |
|---|-------|
| <input type="checkbox"/> Plant Diversity | _____ |
| <input type="checkbox"/> Terrestrial Plants | _____ |
| <input type="checkbox"/> Fungi | _____ |
| <input type="checkbox"/> Algae | _____ |
| <input type="checkbox"/> Evolution / Genetics | _____ |
| <input type="checkbox"/> Ecology (relevant course ≥ 400 level) | _____ |
| <input type="checkbox"/> Seminar (BOT 610) | _____ |
| <input type="checkbox"/> 1st Lecture/Presentation (all MS and PhD) | _____ |
| <input type="checkbox"/> 2nd Lecture (PhD only) | _____ |
| <input type="checkbox"/> 3rd Lecture (PhD only) | _____ |

TRACK-SPECIFIC CURRICULUM

How and when proficiency was met

- | | |
|--|-------|
| <input type="checkbox"/> Ecology (2nd Course) | _____ |
| <input type="checkbox"/> Plant Physiology | _____ |
| <input type="checkbox"/> Systematics of appropriate group | _____ |
| <input type="checkbox"/> Advanced Technique #1 | _____ |
| <input type="checkbox"/> Advanced Technique #2 – Statistics (≥ 400 level) | _____ |
-

Ethnobotany Track

Name: _____

Students will work with their interim and/or permanent committees to determine when and how proficiencies are met.

CORE CURRICULUM

How and when proficiency was met

- | | |
|---|-------|
| <input type="checkbox"/> Plant Diversity | _____ |
| <input type="checkbox"/> Terrestrial Plants | _____ |
| <input type="checkbox"/> Fungi | _____ |
| <input type="checkbox"/> Algae | _____ |
| <input type="checkbox"/> Evolution / Genetics | _____ |
| <input type="checkbox"/> Ecology (relevant course ≥ 400 level) | _____ |
| <input type="checkbox"/> Seminar (BOT 610) | _____ |
| <input type="checkbox"/> 1st Lecture/Presentation (all MS and PhD) | _____ |
| <input type="checkbox"/> 2nd Lecture (PhD only) | _____ |
| <input type="checkbox"/> 3rd Lecture (PhD only) | _____ |

TRACK-SPECIFIC CURRICULUM

How and when proficiency was met

- | | |
|--|-------|
| <input type="checkbox"/> Biogeography | _____ |
| <input type="checkbox"/> Ethnobotany | _____ |
| <input type="checkbox"/> Systematics of appropriate group | _____ |
| <input type="checkbox"/> Social Science | _____ |
| <input type="checkbox"/> Advanced Technique #1 – Statistics (≥ 400 level) | _____ |
| <input type="checkbox"/> Advanced Technique #2 | _____ |
-

General Botany Track

Name: _____

Students will work with their interim and/or permanent committees to determine when and how
proficiencies are met.

CORE CURRICULUM

How and when proficiency was met

- | | |
|--|-------|
| <input type="checkbox"/> Plant Diversity | _____ |
| <input type="checkbox"/> Terrestrial Plants | _____ |
| <input type="checkbox"/> Fungi | _____ |
| <input type="checkbox"/> Algae | _____ |
| <input type="checkbox"/> Evolution / Genetics | _____ |
| <input type="checkbox"/> Ecology (relevant course \geq400 level) | _____ |
| <input type="checkbox"/> Seminar (BOT 610) | _____ |
| <input type="checkbox"/> 1st Lecture/Presentation (all MS and PhD) | _____ |
| <input type="checkbox"/> 2nd Lecture (PhD only) | _____ |
| <input type="checkbox"/> 3rd Lecture (PhD only) | _____ |

TRACK-SPECIFIC CURRICULUM

How and when proficiency was met

- | | |
|--|-------|
| <input type="checkbox"/> Anatomy / Structure | _____ |
| <input type="checkbox"/> Evolution (if core was genetics) | _____ |
| <input type="checkbox"/> Physiology | _____ |
| <input type="checkbox"/> Systematics (1 of 2) | _____ |
| <input type="checkbox"/> Systematics (2 of 2) | _____ |
| <input type="checkbox"/> Advanced Technique | _____ |
-

Marine Botany Track

Name: _____

**Students will work with their interim and/or permanent committees to determine when and how
proficiencies are met.**

CORE CURRICULUM

How and when proficiency was met

- | | |
|---|--|
| <input type="checkbox"/> Plant Diversity | |
| <input type="checkbox"/> Terrestrial Plants | |
| <input type="checkbox"/> Fungi | |
| <input type="checkbox"/> Algae | |
| <input type="checkbox"/> Evolution / Genetics | |
| <input type="checkbox"/> Ecology (relevant course ≥ 400 level) | |
| <input type="checkbox"/> Seminar (BOT 610) | |
| <input type="checkbox"/> 1st Lecture/Presentation (all MS and PhD) | |
| <input type="checkbox"/> 2nd Lecture (PhD only) | |
| <input type="checkbox"/> 3rd Lecture (PhD only) | |

TRACK-SPECIFIC CURRICULUM

How and when proficiency was met

- | | |
|--|--|
| <input type="checkbox"/> Ecology, BOT 682 (2 nd course) | |
| <input type="checkbox"/> Physiology | |
| <input type="checkbox"/> Systematics, BOT 480 | |
| <input type="checkbox"/> Advanced Technique #1 – Statistics (≥ 400 level) | |
| <input type="checkbox"/> Advanced Technique #2 | |
-

Systematics / Evolution Track

Name: _____

**Students will work with their interim and/or permanent committees to determine when and how
proficiencies are met.**

CORE CURRICULUM

How and when proficiency was met

- | | |
|--|-------|
| <input type="checkbox"/> Plant Diversity | _____ |
| <input type="checkbox"/> Terrestrial Plants | _____ |
| <input type="checkbox"/> Fungi | _____ |
| <input type="checkbox"/> Algae | _____ |
| <input type="checkbox"/> Evolution / Genetics | _____ |
| <input type="checkbox"/> Ecology (relevant course \geq400 level) | _____ |
| <input type="checkbox"/> Seminar (BOT 610) | _____ |
| <input type="checkbox"/> 1st Lecture/Presentation (all MS and PhD) | _____ |
| <input type="checkbox"/> 2nd Lecture (PhD only) | _____ |
| <input type="checkbox"/> 3rd Lecture (PhD only) | _____ |

TRACK-SPECIFIC CURRICULUM

How and when proficiency was met

- | | |
|---|-------|
| <input type="checkbox"/> Anatomy / Structure | _____ |
| <input type="checkbox"/> Evolution / Genetics (2 nd course) | _____ |
| <input type="checkbox"/> Systematics of appropriate group | _____ |
| <input type="checkbox"/> Molecular Biology | _____ |
| <input type="checkbox"/> Advanced Technique | _____ |
-

Whole Plant Track

Name: _____

Students will work with their interim and/or permanent committees to determine when and how proficiencies are met.

CORE CURRICULUM

How and when proficiency was met

- | | |
|---|--|
| <input type="checkbox"/> Plant Diversity | |
| <input type="checkbox"/> Terrestrial Plants | |
| <input type="checkbox"/> Fungi | |
| <input type="checkbox"/> Algae | |
| <input type="checkbox"/> Evolution / Genetics | |
| <input type="checkbox"/> Ecology (relevant course ≥ 400 level) | |
| <input type="checkbox"/> Seminar (BOT 610) | |
| <input type="checkbox"/> 1st Lecture/Presentation (all MS and PhD) | |
| <input type="checkbox"/> 2nd Lecture (PhD only) | |
| <input type="checkbox"/> 3rd Lecture (PhD only) | |

TRACK-SPECIFIC CURRICULUM

How and when proficiency was met

- | | |
|--|--|
| <input type="checkbox"/> Physiology (1 of 2) | |
| <input type="checkbox"/> Physiology (2 of 2) | |
| <input type="checkbox"/> Anatomy / Structure | |
| <input type="checkbox"/> Advanced Technique #1 – Statistics (≥ 400 level) | |
| <input type="checkbox"/> Advanced Technique #2 | |
-