Program Outcomes Assessment

PHD in Biology

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Table of Contents

General Information 1

Standing Requirements 2

- Mission Statement 2
- Outcomes Library 2
- Curriculum Map 2
- Communication of Outcomes 3

Archive 4

- Archive 4

2011-2012 Assessment Cycle 5

- Assessment Plan 5
- Assessment Findings 5
- Action Plan 6
- Status Report 6

2012-2013 Assessment Cycle 8

- Assessment Plan 8
- Assessment Findings 8
- Action Plan 9
- Status Report 9

2013-2014 Assessment Cycle 10

- Assessment Plan 10
- Assessment Findings 10
- Action Plan 10
- Status Report 10

2014-2015 Assessment Cycle 11

- Assessment Plan 11
- Assessment Findings 11
- Action Plan 11
- Status Report 11

2015-2016 Assessment Cycle 12

Assessment Plan 12
Assessment Findings 12
Action Plan 12
Status Report 12

2016-2017 Assessment Cycle 13

Assessment Plan 13
Assessment Findings 13
Action Plan 13
Status Report 13

2017-2018 Assessment Cycle 14

Assessment Plan 14
Assessment Findings 14
Action Plan 14
Status Report 14

2018-2019 Assessment Cycle 15

Assessment Plan 15
Assessment Findings 15
Action Plan 15
Status Report 15

2019-2020 Assessment Cycle 16

Assessment Plan 16
Assessment Findings 16
Action Plan 16
Status Report 16

Appendix 17

General Information (Program Outcomes Assessment)

Standing Requirements

Mission Statement

The mission of the Department of Biology at Indiana State University is to nurture the academic potential of every student, advance knowledge through quality research, and serve the university and broader communities. Through experiential learning both within and outside the classroom, we motivate our students to become critically thinking, informed citizens with a heightened interest in science. Through one-on-one mentoring, we engage both undergraduate and graduate students in the excitement and challenge of original research. Through research and outreach education, we make valuable contributions at both local and national scales to the scientific community and the well-being of the general public.

Outcomes Library

PHD in Biology

PHD in Biology

Outcome	Mapping
1: Professional communication proficiencies Students demonstrate professional communication proficiencies	No Mapping
2: Contribute to diverse and complex communities Students engage in and meaningfully contribute to diverse and complex communities and professional environments	No Mapping
3: Professional and ethical challenges Students recognize and act on professional and ethical challenges that arise in their field or discipline	No Mapping
4: Mastery of Knowledge Students achieve mastery of the knowledge required in their discipline or profession.	No Mapping
5: Mastery of Skills Students achieve mastery of the skills (including using appropriate tools) required in their discipline or profession	No Mapping

Curriculum Map

Active Curriculum Maps

PHD in Biology (See appendix)
Alignment Set: PHD in Biology
Created: 05/24/2012 12:58:25 pm CST
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Communication of Outcomes

We will publish the outcomes on our web site.

Archive (This area is to be used for archiving pre-TaskStream assessment data and for current documents.)

Archive

2011-2012 Assessment Cycle

Assessment Plan

Outcomes and Measures

PHD in Biology

PHD in Biology

5: Mastery of Skills
Students achieve mastery of the skills (including using appropriate tools) required in their discipline or profession

Measure: Publication in peer-reviewed journals
Indirect - Other

Details/Description: Publish research in peer-reviewed national and international journals.

We will assess this outcome using self-reports from students and their advisors and searching literature databases for current and former students.

Target: We will collect baseline date this cycle which will be used to set targets for future cycles.

Implementation Plan (timeline): Spring 2012

Responsible Individual(s): Department Chair

Assessment Findings

Finding per Measure

PHD in Biology

PHD in Biology

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Students achieve mastery of the skills (including using appropriate tools) required in their discipline or profession

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Indirect - Other

Details/Description: Publish research in peer-reviewed national and international journals.

We will assess this outcome using self-reports from students and their advisors and searching literature databases for current and former students.

Target: We will collect baseline date this cycle which will be used to set targets for future cycles.

Implementation Plan (timeline): Spring 2012

Responsible Individual(s): Department Chair

Findings for Publication in peer-reviewed journals

Summary of Findings: Students included in the assessment were students who graduated from Summer 2009 to Fall 2011.

Of the four Ph.D. students, three (75%) had published a median of 2.5 papers.

Results: Target Achievement: Met

Recommendations :

Reflections/Notes : The publication rates of recent graduates of the Biology M.S. and Ph.D. programs seems quite good.

Substantiating Evidence:

Biology Assessment Report 2011-12.pdf (Adobe Acrobat Document) (See appendix)

These Findings are associated with the following Actions:

Cotinue to monitor
(Action Plan; 2011-2012 Assessment Cycle)

Overall Recommendations

No text specified

Overall Reflection

No text specified

Action Plan

Actions

PHD in Biology

PHD in Biology

5: Mastery of Skills
Students achieve mastery of the skills (including using appropriate tools) required in their discipline or profession

Action: Cotinue to monitor

This Action is associated with the following Findings

Findings for Publication in peer-reviewed journals
(Assessment Plan and Assessment Findings; 2011-2012 Assessment Cycle)

Summary of Findings: Students included in the assessment were students who graduated from Summer 2009 to Fall 2011.

Of the four Ph.D. students, three (75%) had published a median of 2.5 papers.

Action Details: The Biology Department should continue the mentoring strategies it uses, which seem to be training students well to publish papers in peer-reviewed journals. There does not seem to be a need to modify the curriculum or practices, given the rate of success of students in publishing.

Implementation Plan (timeline):

Key/Responsible Personnel:

Measures:

Resource Allocations:

Priority:

Status Report

Action Statuses

PHD in Biology

PHD in Biology

5: Mastery of Skills
Students achieve mastery of the skills (including using appropriate tools) required in their discipline or profession

Action: Cotinue to monitor

Action Details: The Biology Department should continue the mentoring strategies it uses, which seem to be training students well to publish papers in peer-reviewed journals. There does not seem to be a need to modify the curriculum or practices, given the rate of success of students in publishing.

Implementation Plan (timeline):

Key/Responsible Personnel:

Measures:

Resource Allocations:

Priority:

Status for Cotinue to monitor

No Status Added

Status Summary

No text specified

Summary of Next Steps

No text specified

2012-2013 Assessment Cycle

Assessment Plan

Outcomes and Measures

PHD in Biology

PHD in Biology

5: Mastery of Skills
Students achieve mastery of the skills (including using appropriate tools) required in their discipline or profession

Measure: Number of presentations
Indirect - Other

Details/Description: Determine the number of presentations made by graduate students at professional meetings each year for the last three years.

Target:

Implementation Plan (timeline): Spring 2013

Responsible Individual(s): Department chair

Measure: Student performance on oral presentatons
Direct - Student Artifact

Details/Description: Evaluate student presentations in BIO 640 – Seminar: Graduate Student Research.

Develop a rubric to evaluate student performance on oral and poster presentations produced in these classes.

Have faculty teaching the course apply the rubric to student artifacts.

Analyze scores generated by application of rubric to student artifacts.

Target:

Implementation Plan (timeline): 2012-13

Responsible Individual(s): faculty teaching BIO 640 and department chair

Assessment Findings

Finding per Measure

PHD in Biology

PHD in Biology

5: Mastery of Skills
Students achieve mastery of the skills (including using appropriate tools) required in their discipline or profession

Measure: Number of presentations
Indirect - Other

Details/Description: Determine the number of presentations made by graduate students at professional meetings each year for the last three years.

Target:

Implementation Plan (timeline): Spring 2013
Responsible Individual(s): Department chair

Findings for Number of presentations

No Findings Added

Measure: Student performance on oral presentatons
Direct - Student Artifact

Details/Description: Evaluate student presentations in BIO 640 – Seminar: Graduate Student Research.

Develop a rubric to evaluate student performance on oral and poster presentations produced in these classes.

Have faculty teaching the course apply the rubric to student artifacts.

Analyze scores generated by application of rubric to student artifacts.

Target:

Implementation Plan (timeline): 2012-13

Responsible Individual(s): faculty teaching BIO 640 and department chair

Findings for Student performance on oral presentatons

No Findings Added

Overall Recommendations

No text specified

Overall Reflection

No text specified

Action Plan

Status Report

2013-2014 Assessment Cycle

- **Assessment Plan**
- **Assessment Findings**
- **Action Plan**
- **Status Report**

2014-2015 Assessment Cycle

- **Assessment Plan**
- **Assessment Findings**
- **Action Plan**
- **Status Report**

2015-2016 Assessment Cycle

- **Assessment Plan**
- **Assessment Findings**
- **Action Plan**
- **Status Report**

2016-2017 Assessment Cycle

- **Assessment Plan**
- **Assessment Findings**
- **Action Plan**
- **Status Report**

2017-2018 Assessment Cycle

- **Assessment Plan**
- **Assessment Findings**
- **Action Plan**
- **Status Report**

2018-2019 Assessment Cycle

- **Assessment Plan**
- **Assessment Findings**
- **Action Plan**
- **Status Report**

2019-2020 Assessment Cycle

- **Assessment Plan**
- **Assessment Findings**
- **Action Plan**
- **Status Report**

Appendix

A. **PHD in Biology** (Curriculum Map)
B. **Biology Assessment Report 2011-12.pdf** (Adobe Acrobat Document)